

NAMED THINGS IN MATHEMATICS

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Timeline of Named Mathematical Concepts

MATHEMATICAL CONCEPT	YEAR	REFERENCES
"robust" term (Box, G.E.P.)	1959	Box, G.E.P.; Watson, G.S. <i>Biometrika</i> 1962 , <u>49</u> , 93 Box, G.E.P.; Tiao, G.C. <i>Biometrika</i> 1962 , <u>49</u> , 419
Abel's identities	1827	Abel, N.H. <i>J. reine angew. Math.</i> 1826 , <u>1</u> , 65 Abel, N.H. <i>J. reine angew. Math.</i> 1827 , <u>2</u> , 101 Abel, N.H. <i>J. reine angew. Math.</i> 1827 , <u>3</u> , 160 Abel, N.H. <i>Oeuvres</i> , 2 vol., (Sylow; Lie, eds.), Christiania, 1881
Abel's inequality	1827	Abel, N.H. <i>J. reine angew. Math.</i> 1826 , <u>1</u> , 65 Abel, N.H. <i>J. reine angew. Math.</i> 1827 , <u>2</u> , 101 Abel, N.H. <i>J. reine angew. Math.</i> 1827 , <u>3</u> , 160 Abel, N.H. <i>Oeuvres</i> , 2 vol., (Sylow; Lie, eds.), Christiania, 1881
Abel's integral equation	1827	Abel, N.H. <i>J. reine angew. Math.</i> 1826 , <u>1</u> , 65 Abel, N.H. <i>J. reine angew. Math.</i> 1827 , <u>2</u> , 101 Abel, N.H. <i>J. reine angew. Math.</i> 1827 , <u>3</u> , 160 Abel, N.H. <i>Oeuvres</i> , 2 vol., (Sylow; Lie, eds.), Christiania, 1881
Abel's test for convergence	1827	Abel, N.H. <i>J. reine angew. Math.</i> 1826 , <u>1</u> , 65 Abel, N.H. <i>J. reine angew. Math.</i> 1827 , <u>2</u> , 101 Abel, N.H. <i>J. reine angew. Math.</i> 1827 , <u>3</u> , 160

		Abel, N.H. <i>Oeuvres</i> , 2 vol., (SyLOW; Lie, eds.), Christiania, 1881
Abel's test for infinite integrals	1827	Abel, N.H. <i>J. reine angew. Math.</i> 1826 , <u>1</u> , 65 Abel, N.H. <i>J. reine angew. Math.</i> 1827 , <u>2</u> , 101 Abel, N.H. <i>J. reine angew. Math.</i> 1827 , <u>3</u> , 160 Abel, N.H. <i>Oeuvres</i> , 2 vol., (SyLOW; Lie, eds.), Christiania, 1881
Abel's theorem on multiplication of series	1827	Abel, N.H. <i>J. reine angew. Math.</i> 1826 , <u>1</u> , 65 Abel, N.H. <i>J. reine angew. Math.</i> 1827 , <u>2</u> , 101 Abel, N.H. <i>J. reine angew. Math.</i> 1827 , <u>3</u> , 160 Abel, N.H. <i>Oeuvres</i> , 2 vol., (SyLOW; Lie, eds.), Christiania, 1881
Abelian group	1827	Abel, N.H. <i>J. reine angew. Math.</i> 1826 , <u>1</u> , 65 Abel, N.H. <i>J. reine angew. Math.</i> 1827 , <u>2</u> , 101 Abel, N.H. <i>J. reine angew. Math.</i> 1827 , <u>3</u> , 160 Abel, N.H. <i>Oeuvres</i> , 2 vol., (SyLOW; Lie, eds.), Christiania, 1881
Airy equation	1838	Airy, G.B. <i>Trans. Camb. Phil. Soc.</i> 1838 , <u>6</u> , 379 Stokes, G.G. <i>Trans. Camb. Phil. Soc.</i> 1858 , <u>10</u> , 105 Airy, G.B. <i>An Elementary Treatise on Partial Differential Equations</i> , 1866
Airy integral	1838	Airy, G.B. <i>Trans. Camb. Phil. Soc.</i> 1838 , <u>6</u> , 379 Stokes, G.G. <i>Trans. Camb. Phil. Soc.</i> 1858 , <u>10</u> , 105 Airy, G.B. <i>An Elementary Treatise on Partial Differential Equations</i> , 1866
Airy's disk	1838	Airy, G.B. <i>Trans. Camb. Phil. Soc.</i> 1838 , <u>6</u> , 379 Stokes, G.G. <i>Trans. Camb. Phil. Soc.</i> 1858 , <u>10</u> , 105 Airy, G.B. <i>An Elementary Treatise on Partial Differential Equations</i> , 1866
aleph-null symbolism for transfinite numbers (Cantor)	1874	Cantor, G. <i>J. reine angew. Math.</i> 1874 , <u>77</u> , 258 Cantor, G. <i>Gesammelte Abh.</i> 1874 , 115 Cantor, G. <i>Gesammelte Abhandlungen</i> , Springer: Berlin, 1932
Alexander horned sphere	1924	
Alexander polynomial	1928	Alexander, J.W. <i>Trans. Am. Math. Soc.</i> 1928 , <u>30</u> , 275
algebra (al-Khwarizmi)	810	Al-Khwarizmi, <i>Al-jabr w'al muqabala (Calculation by Completion and Balancing)</i> , 810 Index of Biographies, University of St. Andrews, Mathematical Chronology http://www-groups.dcs.st-and.ac.uk/~history/BioIndex.html
algebraic topology (Poincare)	1895	Poincare, H. <i>J. Ecole Polytechnique</i> 1895 , <u>1</u> [2], 1 Poincare, H. <i>Oeuvres</i> 1895 , <u>6</u> , 193

analytical geometry (Descartes)	1637	Descartes, R. <i>La Geometrie</i> , 1637
Apollonius' circle	-225	<i>Conics</i> Index of Biographies, University of St. Andrews, Mathematical Chronology http://www-groups.dcs.st-and.ac.uk/~history/BioIndex.html
application of determinants to solution of systems of linear equations (Leibniz)	1693	
application of Laplace transforms to integral equations (Bateman)	1906	Bateman, H. <i>Messenger of Mathematics</i> 1906 , <u>35</u> , 140 Bateman, H. <i>Proc. London Math. Soc.</i> 1906 , <u>4</u> , 90 Bateman, H. <i>Trans. Cambr. Phil. Soc.</i> 1906 , <u>20</u> , 233
Archimedes' axiom	-250	<i>Archimedis Opera Omnia</i> , 3 vol., (J.L. Heiberg, ed.), Teubner: Leipzig, 1913 – 5 <i>Les Oeuvres completes d'Archimede</i> , transl. P. Ver Ecke, Paris, 1921
Archimedes' principle	-250	<i>Archimedis Opera Omnia</i> , 3 vol., (J.L. Heiberg, ed.), Teubner: Leipzig, 1913 – 5 <i>Les Oeuvres completes d'Archimede</i> , transl. P. Ver Ecke, Paris, 1921
Archimedes' spiral	-250	<i>Archimedis Opera Omnia</i> , 3 vol., (J.L. Heiberg, ed.), Teubner: Leipzig, 1913 – 5 <i>Les Oeuvres completes d'Archimede</i> , transl. P. Ver Ecke, Paris, 1921
Archimedian screw	-250	<i>Archimedis Opera Omnia</i> , 3 vol., (J.L. Heiberg, ed.), Teubner: Leipzig, 1913 – 5 <i>Les Oeuvres completes d'Archimede</i> , transl. P. Ver Ecke, Paris, 1921
arctan infinite series (Leibniz)	1673	
Argand diagram	1806	Argand, J.R. <i>Essai sur une maniere de représenter les quantités imaginaires dans les constructions géométriques</i> , Paris, 1806
associative law (Hamilton)	?	
axiom of choice (Levi, Beppo)	1902	Levi, B. <i>R. Ist. Lombardo Sci. Lett. Rendic.</i> 1902 , <u>35</u> , 863
Banach spaces	1923	Banach, S. <i>Fund. Math.</i> 1923 , <u>4</u> , 7 Banach, S. <i>Studia Math.</i> 1929 , <u>1</u> , 211; 223 Banach, S. <i>Theorie des opérations linéaires</i> , Warszawa, 1932
Banach-Tarski paradox	1924	Banach, S.; Tarski, A. <i>Fund. Math.</i> 1924 , <u>6</u> , 244
barber paradox (Russell)	1918	Russell, B. <i>Introduction to Mathematical Philosophy</i> , 1919
Bayes theorem	1763	Bayes, T. <i>Essay towards solving a problem in the doctrine of chances</i> , 1763 Bayes, T. <i>Phil. Trans. Roy. Soc.</i> 1763 , <u>53</u> , 370 Barnard, G.A. <i>Biometrika</i> , 1958 , <u>45</u> , 296
Bernoulli distribution	1800	Bernoulli, Jakob <i>Opera</i> , 2 vol., Cramer-Philibert: Geneva, 1744 Bernoulli, Johann <i>Opera Omnia</i> , 4 vol., Lausanne-Geneva, 1742
Bernoulli effect	?	Bernoulli, Jakob <i>Opera</i> , 2 vol., Cramer-Philibert: Geneva, 1744

		Bernoulli, Johann <i>Opera Omnia</i> , 4 vol., Lausanne-Geneva, 1742
Bernoulli law of flow (Bernoulli, Daniel)	1738	Bernoulli, Daniel <i>Hydrodynamica</i> , 1738
Bernoulli numbers (Bernoulli, Jakob)	1713	Bernoulli, Jakob <i>Ars Conjectandi</i> , Basel, 1713 (trans. S. Vastel, Paris, 1801)
Bernoulli trials	?	Bernoulli, Jakob <i>Opera</i> , 2 vol., Cramer-Philibert: Geneva, 1744 Bernoulli, Johann <i>Opera Omnia</i> , 4 vol., Lausanne-Geneva, 1742
Bernoulli's differential equation	?	Bernoulli, Jakob <i>Opera</i> , 2 vol., Cramer-Philibert: Geneva, 1744 Bernoulli, Johann <i>Opera Omnia</i> , 4 vol., Lausanne-Geneva, 1742
Bernoulli's lemniscate	1694	Bernoulli, Jakob <i>Acta Eruditorum</i> 1694 , 13, 262
Bernoulli's theorem	?	Bernoulli, Jakob <i>Opera</i> , 2 vol., Cramer-Philibert: Geneva, 1744 Bernoulli, Johann <i>Opera Omnia</i> , 4 vol., Lausanne-Geneva, 1742
Bernstein polynomials	1911	Bernstein, S.N. <i>On the Best Approximation of Continuous Functions by Means of Polynomials of Given Degree</i> , Kharkov, 1912 (doctoral dissertation) Bernstein, S.N. <i>Memoires de l'Academie Royale de Belgique, Classe des Sciences Collections</i> , 1912 , 4[2], 1 (French translation)
Bessel functions	1817	Index of Biographies, University of St. Andrews, Mathematical Chronology http://www-groups.dcs.st-and.ac.uk/~history/BioIndex.html
Bessel inequality	?	
Bessel integral equation	1817	Index of Biographies, University of St. Andrews, Mathematical Chronology http://www-groups.dcs.st-and.ac.uk/~history/BioIndex.html
Betti numbers	1871	Betti, E. <i>Annali di matematica pura e applicata</i> , 1871 , 4[2], 140
Bezout elimination	1779	Bezout, E. <i>Theorie generale des equations algebriques</i> , Paris, 1779
Bieberbach conjecture	1916	Bieberbach, L. <i>Sitzungber. Preussischen Akad. Wiss. Phys-Math. Kl.</i> 1916 , 940
Bieberbach polynomials	1914	Bieberbach, L. <i>Rend. Circ. Mat. Palermo</i> 1914 , 38, 98
binary arithmetic (Leibniz)	1679	Index of Biographies, University of St. Andrews, Mathematical Chronology http://www-groups.dcs.st-and.ac.uk/~history/BioIndex.html
Binet formulas	?	
Bohr-Landau theorem	1914	Bohr, H.; Landau, E. <i>Math. Ann.</i> 1913 , 74, 3 Bohr, H.; Landau, E.; Littlewood, J.E. <i>Bull. Acad. Belg.</i> 1913 , 1144 Bohr, H.; Landau, E. <i>Rend. Circ. Mat. Palermo</i> 1914 , 37, 269 Bohr, H. <i>Compt. Rend.</i> 1914 , 158, 1986 Landau, E.; Bohr, H. <i>Compt. Rend.</i> 1914 , 158, 106 Bohr, H. <i>Compt. Rend. Soc. Math. Fr.</i> 1914 , 52 Bohr, H. <i>Acta Math.</i> 1915 , 24, 1

		Bohr, H.; Landau, E. <i>Nachr. Ges. Wiss. Göttingen</i> 1923 , 71 Bohr, H. <i>Nachr. Ges. Wiss. Göttingen</i> 1924 , 168
Boolean algebra	1854	Boole, G. <i>Mathematical Analysis of Logic</i> , 1847 Boole, G. <i>The Laws of Thought on which are founded the Mathematical Theories of Logic and Probabilities</i> , 1854 Boole, G. <i>Collected Logical Works</i> , 2 vol., (P. Jourdain, ed.), London, 1916
Borel measure	1894	Borel, E. <i>Lecons sur la theorie des fonctions</i> , Gauthier-Villars: Paris, 1898
Borromean rings	?	
Box-Cox transformations	1964	Box, G.E.P.; Cox, D.R. <i>J. Roy. Stat. Soc. B</i> 1964 , <u>26B</u> , 211
Brachistochrone problem (Bernoulli, Johann)	1696	Bernoulli, Johann <i>Acta Eruditorum</i> 1696 , <u>15</u> , 270 Bernoulli, Johann <i>Opera Omnia</i> 1696 , <u>1</u> , 161 Bernoulli, Johann <i>Opera Omnia</i> , 4 vol., Lausanne-Geneva, 1742 Index of Biographies, University of St. Andrews, Mathematical Chronology http://www-groups.dcs.st-and.ac.uk/~history/BioIndex.html
Brianchon theorem	1806	Brianchon, C.J. <i>J. Ecole Polytechnique</i> , 1806 , <i>Recherches sur la determinations d'une hyperbole equilatera, au moyen de quatres conditions donnees</i> , 1806 Index of Biographies, University of St. Andrews, Mathematical Chronology http://www-groups.dcs.st-and.ac.uk/~history/BioIndex.html
Briggs's logarithms	1617	Briggs, H. <i>Logarithmorum chilias prima</i> , 1617 Briggs, H. <i>Arithmetica logarithmica, sive logarithmorum chiliades triginta</i> , London, 1624 Index of Biographies, University of St. Andrews, Mathematical Chronology http://www-groups.dcs.st-and.ac.uk/~history/BioIndex.html
Buffon needle problem	1777	Buffon, G. <i>Essai d'arithmetique morale. Supplement a "L'Histoire Morale"</i> , 1777 Lanessan, J.L. (ed.) <i>Oeuvres completes de Buffon</i> , 14 vols., Paris, 1884 - 1885
calculus of finite differences (Euler)	1755	Euler, L. <i>Opera Omnia</i> , 46 vol., Teubner and O. Fussli: Leipzig, 1911 - 1957
calculus of tensors (Levi-Civita)	1887	Ricci, G.; Levi-Civita, T. <i>Math. Ann.</i> 1901 , <u>54</u> , 125
calculus of variations applied to theory of elasticity (Germain)	1821	Germain, S. <i>Remarques sur la nature, les bornes et l'etendue de la question des surfaces elastique et equation generale de ces surfaces</i> , Paris, 1821, 1826 Germain, S. <i>Memoire sur l'emploi de l'epaisseur dans la theorie des surfaces elastiques</i> , Paris, 1880
Cantor fractals	?	Cantor, G. <i>Gesammelte Abhandlungen</i> , Springer: Berlin, 1932
Cantor set theory	1874	Cantor, G. <i>Gesammelte Abhandlungen</i> , Springer: Berlin, 1932

Cantor's continuum hypothesis	1874	Cantor, G. <i>Gesammelte Abhandlungen</i> , Springer: Berlin, 1932
Cardano's solution of cubics	1545	Cardano, G. <i>Ars Magna</i> , 1545
cartesian co-ordinate system	1637	Descartes, R. <i>La Geometrie</i> , 1637
Cassinian curve	1680	Index of Biographies, University of St. Andrews, Mathematical Chronology http://www-groups.dcs.st-and.ac.uk/~history/BioIndex.html
catenoid equation (Bernoulli, Jakob)	1690	Bernoulli, Jakob <i>Acta Eruditorum</i> 1690 , <u>9</u> , 219 Bernoulli, Jakob <i>Acta Eruditorum</i> 1692 , <u>11</u> , 207 Bernoulli, Jakob <i>Opera</i> , 2 vol., Cramer-Philibert: Geneva, 1744
Cauchy frequency distribution	1830	Cauchy, A.L. <i>Memoire sur les integrales definies prises entre des limites imaginaires</i> , Paris, 1825 Cauchy, A.L. <i>Oeuvres</i> , 26 vol., Gauthier-Villars: Paris, 1882 - 1958
Cauchy generalized mean value theorem	1830	Cauchy, A.L. <i>Memoire sur les integrales definies prises entre des limites imaginaires</i> , Paris, 1825 Cauchy, A.L. <i>Oeuvres</i> , 26 vol., Gauthier-Villars: Paris, 1882 – 1958
Cauchy integral formula	1830	Cauchy, A.L. <i>Memoire sur les integrales definies prises entre des limites imaginaires</i> , Paris, 1825 Cauchy, A.L. <i>Oeuvres</i> , 26 vol., Gauthier-Villars: Paris, 1882 - 1958
Cauchy integral theorem	1830	Cauchy, A.L. <i>Memoire sur les integrales definies prises entre des limites imaginaires</i> , Paris, 1825 Cauchy, A.L. <i>Oeuvres</i> , 26 vol., Gauthier-Villars: Paris, 1882 - 1958
Cauchy rule of series	1827	Cauchy, A.L. <i>Memoire sur les integrales definies prises entre des limites imaginaires</i> , Paris, 1825 Cauchy, A.L. <i>Oeuvres</i> , 26 vol., Gauthier-Villars: Paris, 1882 - 1958
Cauchy tests for convergence	1827	Cauchy, A.L. <i>Memoire sur les integrales definies prises entre des limites imaginaires</i> , Paris, 1825 Cauchy, A.L. <i>Oeuvres</i> , 26 vol., Gauthier-Villars: Paris, 1882 – 1958
Cauchy theorem of existence of a limit	1827	Cauchy, A.L. <i>Memoire sur les integrales definies prises entre des limites imaginaires</i> , Paris, 1825 Cauchy, A.L. <i>Oeuvres</i> , 26 vol., Gauthier-Villars: Paris, 1882 - 1958
Cauchy's theorem (group theory)	1845	Cauchy, A.L. <i>Compt. Rend.</i> 1846 , <u>23</u> , 251 Cauchy, A.L. <i>Oeuvres</i> , 26 vol., Gauthier-Villars: Paris, 1882 - 1958
Cauchy-Schwarz inequality	1830	Cauchy, A.L. <i>Memoire sur les integrales definies prises entre des limites imaginaires</i> , Paris, 1825

		Cauchy, A.L. <i>Oeuvres</i> , 26 vol., Gauthier-Villars: Paris, 1882 - 1958
Cavalieri's theorem	1635	Cavalieri, B. <i>Geometria indivisibilibus continuorum nova quadam ratione promota</i> , 1635
Cayley matrix theory	1855	Cayley, A. <i>Collected Mathematical Papers</i> , 13 vol., Cambridge University Press: Cambridge, 1889 – 1898 Cayley, A. <i>Cambr. Phil. Soc.</i> 1849 , <u>8</u> , 75 Cayley, A. <i>Phil. Trans. Roy. Soc. London</i> 1858 , <u>148</u> , 17
Cayley-Hamilton theorem	1855	Cayley, A. <i>Collected Mathematical Papers</i> , 13 vol., Cambridge University Press: Cambridge, 1889 - 1898
Ceva theorem	1678	Ceva, G. <i>De lineis rectis</i> , 1678 Index of Biographies, University of St. Andrews, Mathematical Chronology http://www-groups.dcs.st-and.ac.uk/~history/BioIndex.html
chaos theory (Lorenz, Edward)	1961	Index of Biographies, University of St. Andrews, Mathematical Chronology http://www-groups.dcs.st-and.ac.uk/~history/BioIndex.html
Chebyshev (Tchebyschef) approximation	1890	Tchebychef, T. <i>Acta Math.</i> 1890 , <u>14</u> , 305 Tchebychef, T. (A.A. Markov, N.Y. Sonin, eds.) <i>Oeuvres</i> , 2 vols., St. Petersburg, 1899 - 1907
Chebyshev (Tchebyschef) polynomials	1890	Tchebychef, T. <i>Acta Math.</i> 1890 , <u>14</u> , 305 Tchebychef, T. (A.A. Markov, N.Y. Sonin, eds.) <i>Oeuvres</i> , 2 vols., St. Petersburg, 1899 - 1907
Chebyshev's (Tchebyschef) inequality	1890	Tchebychef, T. <i>Acta Math.</i> 1890 , <u>14</u> , 305 Tchebychef, T. (A.A. Markov, N.Y. Sonin, eds.) <i>Oeuvres</i> , 2 vols., St. Petersburg, 1899 - 1907
chi-square goodness of fit test (Pearson, Karl)	1900	Pearson, K. <i>Phil. Mag.</i> 1900 , <u>50</u> [5], 157 Fisher, R.A. <i>J. Roy. Statist. Soc.</i> 1922 , <u>85</u> , 87; 597 Fisher, R.A. <i>J. Roy. Statist. Soc.</i> 1924 , <u>87</u> , 442 Fisher, R.A. <i>Atti Cong. Int. Math. Bologna</i> 1928 , <u>6</u> , 94
Chinese remainder theorem (Chiu-Shao, Ch'in)	1247	<i>Mathematical Treatise in Nine Sections</i> Index of Biographies, University of St. Andrews, Mathematical Chronology http://www-groups.dcs.st-and.ac.uk/~history/BioIndex.html
Church-Turing principle	1936	Church, A. <i>Am. J. Math.</i> 1936 , <u>58</u> , 345 Turing, A. <i>Proc. London Math. Soc.</i> 1936 , <u>42</u> (2), 230
Clifford algebra	1882	Clifford, W.K. <i>Mathematical Papers</i> , Macmillan: London, 1882

Clifford theorem	1882	Clifford, W.K. <i>Mathematical Papers</i> , Macmillan: London, 1882
co-ordinate term (Leibniz)	1692	Leibniz, G.W. <i>Acta Eruditorum</i> 1691 , <u>10</u> , 277 Leibniz, G.W. <i>Mathematische Schriften</i> 1691 , <u>5</u> , 243
commutative law (Servois, Francois)	?	
compact packing of spheres (Kepler)	1611	
concept of maximum likelihood (Fisher)	1921	Fisher, R.A. <i>Metron</i> 1921 , <u>1</u> (4), 1 Fisher, R.A. <i>Proc. Camb. Phil. Soc.</i> 1932 , <u>28</u> , 257 Fisher, R.A. <i>Proc. Roy. Soc. A</i> 1934 , <u>144A</u> , 285 Fisher, R.A. <i>Proc. Roy. Soc. A</i> 1934 , <u>146A</u> , 1
concept of sample space in probability theory (von Mises)	1919	Von Mises, R. <i>Math. Zeitschr.</i> 1919 , <u>4</u> , 1 Von Mises, R. <i>Math. Zeitschr.</i> 1919 , <u>5</u> , 52 Von Mises, R. <i>Probability, Statistics, and Truth</i> , 1928 (German); 1939 (English)
conchoid of Nicomedes	-230	Index of Biographies, University of St. Andrews, Mathematical Chronology http://www-groups.dcs.st-and.ac.uk/~history/BioIndex.html
conic sections (Apollonius)	-225	<i>Conics</i> Index of Biographies, University of St. Andrews, Mathematical Chronology http://www-groups.dcs.st-and.ac.uk/~history/BioIndex.html
continued fraction (Cataldi)	1590	Index of Biographies, University of St. Andrews, Mathematical Chronology http://www-groups.dcs.st-and.ac.uk/~history/BioIndex.html
convergence of ratio of successive Fibonacci numbers to golden number (Simson, R.)	1753	Index of Biographies, University of St. Andrews, Mathematical Chronology http://www-groups.dcs.st-and.ac.uk/~history/BioIndex.html
cos, cot names (Gunter, Edmund)	1620	Index of Biographies, University of St. Andrews, Mathematical Chronology http://www-groups.dcs.st-and.ac.uk/~history/BioIndex.html
Cox significance testing (Cox, David)	1977	Cox, D.R. <i>Scand. J. Statist.</i> 1977 , <u>4</u> , 49
Coxeter graph, group, matrix	1968	Coxeter, H.S.M. <i>Annals of Mathematics</i> 1934 , <u>35</u> , 588 Coined in Bourbaki, N. <i>Elements de Mathematiques Fascicule XXXIV Groupes et Algebres de Lie, Chap. 4,5,6</i> Hermann: Paris, 1968, p. 9 – 22.
Cramer's rule	1750	Cramer, G. <i>Introduction a l'analyse des lignes courbes algebriques</i> , Geneva, 1750, Chapter 3.
cybernetics name (Wiener)	1948	Wiener, N. <i>Cybernetics: or, Control and Communication in the Animal and the Machine</i> , 1948
D'Alembert's paradox	?	

D'Alembert's principle	1743	D'Alembert, J. LeR. <i>Traite de Dynamique</i> , 1743 D'Alembert, J. LeR. <i>Traite de l'equilibre et du mouvement des fluides</i> , 1744 Index of Biographies, University of St. Andrews, Mathematical Chronology http://www-groups.dcs.st-and.ac.uk/~history/BioIndex.html
D'Alembert's ratio test	1743	D'Alembert, J. Le R. <i>Hist. Acad. Sci. Berlin</i> , 1746 , <u>2</u> , 182
D'Alembert's test for convergence	1743	D'Alembert, J. Le R. <i>Hist. Acad. Sci. Berlin</i> , 1746 , <u>2</u> , 182
D'Alembertian	1743	D'Alembert, J. Le R. <i>Hist. Acad. Sci. Berlin</i> , 1746 , <u>2</u> , 182
de Moivre's theorem	1707	De Moivre, A. <i>Phil. Trans. Roy. Soc.</i> 1722 - 1723 , <u>32</u> (373), 162 De Moivre, A. <i>The Doctrine of Chances</i> , London, 1718 (1 st ed.); 1738 (2 nd ed.); 1756 (3 rd ed.)
de Morgan's laws	1847	De Morgan, A. <i>Trans. Cambr. Phil. Soc.</i> 1849 , <u>8</u> , 379 De Morgan, A. <i>Trans. Cambr. Phil. Soc.</i> 1856 , <u>9</u> , 79 De Morgan, A. <i>Trans. Cambr. Phil. Soc.</i> 1858 , <u>10</u> , 173; 331; 428
decimal fractions (Stevin)	1585	Stevin, S. <i>Les Oeuvres Mathematiques</i> , (A. Girard, ed.) Leyde (Elzevir), 1634 <i>De Thiende</i> Index of Biographies, University of St. Andrews, Mathematical Chronology http://www-groups.dcs.st-and.ac.uk/~history/BioIndex.html
decimal notation (Indian mathematicians)	594	Index of Biographies, University of St. Andrews, Mathematical Chronology http://www-groups.dcs.st-and.ac.uk/~history/BioIndex.html
Dedekind cuts	1872	Dedekind, R. <i>Stetigkeit und irrationale Zahlen</i> , Brunswick, 1872 Dedekind, R.; Weber, H. <i>J. de Crelle</i> 1882 , <u>XCII</u> , 331
Denjoy integral	1912	Denjoy, A. <i>Compt. Rend.</i> 1912 , <u>154</u> , 859; 1075 Denjoy, A. <i>Compt. Rend.</i> 1912 , <u>155</u> , 135
Desargue's theorem	1650	Desargues, G. <i>Oeuvres</i> , Leiber: Paris, 1864
Descartes rule of signs	1637	Descartes, R. <i>La Geometrie</i> , 1637
Descartes' laws	1637	Descartes, R. <i>La Geometrie</i> , 1637
descriptive geometry (Monge)	1763	Monge, G. <i>Geometrie descriptive</i> , Paris, 1798
determinant name (Cauchy)	1812	Cayley, A. <i>Cambr. Phil. Soc.</i> 1849 , <u>8</u> , 75
differential geometry	?	
Diophantine equations	250	<i>Diophanti Alexandrini Opera Omnia</i> , (P. Tannery, ed.), 2 vol., Teubner: Leipzig, 1893 – 1895 Index of Biographies, University of St. Andrews, Mathematical Chronology http://www-groups.dcs.st-and.ac.uk/~history/BioIndex.html

Dirichlet condition	1829	Dirichlet, P.G.L. <i>J. reine angew. Math.</i> 1829 , <u>4</u> , 157 Lejeune-Dirichlet, P.G. <i>Werke</i> , 2 vol., Reimer: Berlin, 1889 - 1897
Dirichlet definition of a function	1837	Dirichlet, P.G.L. <i>Abh. Akad. Wiss. Berlin</i> 1837 , 45 Dirichlet, P.G.L. <i>Werke</i> 1837 , <u>1</u> , 315 Lejeune-Dirichlet, P.G. <i>Werke</i> , 2 vol., Reimer: Berlin, 1889 - 1897
Dirichlet problem	1829	Dirichlet, P.G.L. <i>J. reine angew. Math.</i> 1829 , <u>4</u> , 157 Lejeune-Dirichlet, P.G. <i>Werke</i> , 2 vol., Reimer: Berlin, 1889 - 1897
Dirichlet test for convergence	1829	Dirichlet, P.G.L. <i>J. reine angew. Math.</i> 1829 , <u>4</u> , 157 Lejeune-Dirichlet, P.G. <i>Werke</i> , 2 vol., Reimer: Berlin, 1889 - 1897
distributive law (Servois, Francois)	?	
drawing of regular 17-gon (Gauss)	1796	Gauss, C.F. <i>Disquisitiones Arithmeticae</i> , 1796 Gauss, C.F. <i>Werke</i> , 12 vol., Göttingen, 1870 - 1927 Index of Biographies, University of St. Andrews, Mathematical Chronology http://www-groups.dcs.st-and.ac.uk/~history/BioIndex.html
$D^n f(x)$ operator notation for derivatives (Arbogast, Louis)	1800	
e is transcendental (Hermite)	1873	Hermite, C. <i>Compt. Rend.</i> 1873 , <u>77</u> , 18; 74; 226; 285 Hermite, C. <i>Oeuvres</i> 1873 , <u>3</u> , 150
elliptic geometry (Riemann)	1854	Riemann, G.F.B. <i>Elliptische Funktionen</i> , (H. Stahl, ed.), Leipzig, 1899
Epimenes paradox (liar paradox)	?	
Eratosthenes prime number sieve	-230	Index of Biographies, University of St. Andrews, Mathematical Chronology http://www-groups.dcs.st-and.ac.uk/~history/BioIndex.html
Erlangen program (Klein)	1872	Klein, F. <i>Vergleichende Betrachtungen über neuere geometrische Forschungen (Erlangen Programm)</i> , Akademische Verlagsgesellschaft, Leipzig, 1872 Klein, F. <i>Gesammelte Math Abh.</i> 1872 , <u>1</u> , 460
Euclidean geometry	-300	Euclid, <i>Elementa</i> , 5 vol., (J.L. Heiberg, ed.), Teubner: Leipzig, 1883 - 1888 <i>Stoicheion (The Elements)</i>
Euler definition of a function	1748	Euler, L.. <i>Opera Omnia</i> , ser. 1 1748 , 8 Euler, L.. <i>Opera Omnia</i> , ser. 1 1748 , 9 Euler, L. <i>Opera Omnia</i> , 46 vol., Teubner and O. Fussli: Leipzig, 1911 - 1957
Euler integral	?	Euler, L. <i>Opera Omnia</i> , 46 vol., Teubner and O. Fussli: Leipzig, 1911 - 1957
Euler magic square	?	Euler, L. <i>Opera Omnia</i> , 46 vol., Teubner and O. Fussli: Leipzig, 1911 - 1957
Euler notation for a function, $f(x)$	1735	Euler, L. <i>Opera Omnia</i> , 46 vol., Teubner and O. Fussli: Leipzig, 1911 - 1957

Euler polyhedron formula (Descartes)	1635	Descartes, R. <i>La Geometrie</i> , 1637
Euler polyhedron formula (Euler)	1752	Euler, L. <i>Elementa doctrinae solidorum</i> , <i>Novi Comm. Acad. Sci. Petrop.</i> 1752 , <u>4</u> , 109 Euler, L. <i>Opera Omnia</i> , Vol. 26, p. 72 - 93; 94 - 108
Euler product	1740	Euler, L. <i>Opera Omnia</i> , 46 vol., Teubner and O. Fussli: Leipzig, 1911 - 1957
Euler zeta function as infinite series	1740	Euler, L. <i>Opera Omnia</i> , 46 vol., Teubner and O. Fussli: Leipzig, 1911 - 1957
Euler's conjecture	1769	Euler, L. <i>Opera Omnia</i> , ser. 1, 1768 , 11
Euler's constant (gamma)	1731	Euler, L. <i>Opera Omnia</i> , 46 vol., Teubner and O. Fussli: Leipzig, 1911 - 1957
Euler's equations of motion	?	Euler, L. <i>Opera Omnia</i> , 46 vol., Teubner and O. Fussli: Leipzig, 1911 - 1957
Euler's formula (e^{ix})	1748	Euler, L. <i>Miscellanea Berolinensia</i> , 1743 , <u>7</u> , 193 Euler, L.. <i>Opera Omnia</i> , ser. 1 1748 , 8 Euler, L.. <i>Opera Omnia</i> , ser. 1 1748 , 9
Euler's series logarithm formula	1731	Euler, L. <i>Opera Omnia</i> , 46 vol., Teubner and O. Fussli: Leipzig, 1911 - 1957
Euler-Maclaurin formula	1738	Euler, L. <i>Comment. Acad. Sci. Imp. Petrop.</i> 1738 , <u>6</u> , 68
Eulerian angles	?	Euler, L. <i>Opera Omnia</i> , 46 vol., Teubner and O. Fussli: Leipzig, 1911 - 1957
Existence of transcendental numbers (Liouville)	1844	Liouville, J. <i>Journ. De Math.</i> 1851 , <u>16</u> , 133
exponent notation (Descartes)	1637	Descartes, R. <i>La Geometrie</i> , 1637
factor theorem (Bezout, Etienne)	1779	Bezout, E. <i>Theorie generale des equations algebriques</i> , Paris, 1779
factorial symbol (Kramp, Christian)	1808	
Faulhaber magic square	1604	
Feisthamel magic square	?	
Fejer summation theorem	1900	Fejer, L. <i>Compt. Rend.</i> 1900 , <u>131</u> , 984
Fermat last theorem proof (n = 3) (Gauss)	?	Gauss, C.F. <i>Werke</i> , 12 vol., Göttingen, 1870 - 1927
Fermat last theorem proof (n = 4) (Euler)	1753	Euler, L. <i>Opera Omnia</i> , 46 vol., Teubner and O. Fussli: Leipzig, 1911 - 1957
Fermat last theorem proof (n = 5) (Legendre)	1823	Legendre, A.M. <i>Memoire de l'Acad. Sci.</i> 1823 , <u>6</u> , 1
Fermat last theorem proof (n = 7) (Lame)	1840	Lame, G. <i>Liouville J.</i> 1840 , <u>5</u> , 195 Lame, G. <i>Compt. Rend.</i> 1847 , <u>24</u> , 310; 569
Fermat method of maxima and minima	1629	Fermat, P. <i>Oeuvres</i> 1629 , <u>1</u> , 92
Fermat number	1640	Fermat, P. <i>Oeuvres</i> 1640 , <u>2</u> , 209

Fermat point	1635	Fermat, P. <i>Oeuvres</i> , 5 vol., Gauthier-Villars: Paris, 1891 - 1922
Fermat principle of optics	1635	Fermat, P. <i>Oeuvres</i> , 5 vol., Gauthier-Villars: Paris, 1891 - 1922
Fermat's last theorem	1647	Fermat, P. <i>Oeuvres</i> , 5 vol., Gauthier-Villars: Paris, 1891 – 1922
Fermat's spiral	1636	Fermat, P. <i>Oeuvres</i> , 5 vol., Gauthier-Villars: Paris, 1891 - 1922
Ferrari solution of quartic equations	1540	Index of Biographies, University of St. Andrews, Mathematical Chronology http://www-groups.dcs.st-and.ac.uk/~history/BioIndex.html
Fibonacci numbers	1202	Fibonacci, L. <i>Liber Abaci</i> , 1202
Fibonacci sequence	1202	Fibonacci, L. <i>Liber Abaci</i> , 1202
FitzGerald-Lorentz contraction	1889	FitzGerald, G.F. <i>Science</i> 1889 , <u>13</u> , 390
four colour problem (Guthrie, Francis)	1852	Index of Biographies, University of St. Andrews, Mathematical Chronology http://www-groups.dcs.st-and.ac.uk/~history/BioIndex.html
Fourier coefficient	1822	Fourier, J. <i>La Theorie Analytique de la Chaleur</i> , Didot: Paris, 1822
Fourier heat theorem	1822	Fourier, J. <i>La Theorie Analytique de la Chaleur</i> , Didot: Paris, 1822
Fourier series (harmonic analysis)	1822	Fourier, J. <i>La Theorie Analytique de la Chaleur</i> , Didot: Paris, 1822
Fourier transform	1822	Fourier, J. <i>La Theorie Analytique de la Chaleur</i> , Didot: Paris, 1822
fractal name (Mandelbrot) Mandelbrot set	1967	Mandelbrot, B. <i>Les objets fractals, form, hasard et dimension</i> , Nouvelle Bibliotheque Scientifique: Paris, 1975 Mandelbrot, B. <i>Proc. Natl. Acad. Sci. USA</i> 1975 , <u>72</u> , 3825 Mandelbrot, B. <i>Compt. Rend. Ser. A-B</i> 1976 , <u>282</u> , A119 Mandelbrot, B. <i>Lecture Notes in Mathematics</i> 1976 , <u>565</u> , 121 - 145 Mandelbrot, B. <i>Fractals: form, chance, and dimension</i> , W.H. Freeman, 1977 Mandelbrot, B. <i>Bull. Inst. Math. Appl.</i> 1977 , <u>13</u> , 189
Franklin magic square	?	
Frobenius reciprocity theorem	1898	Frobenius, G. <i>Gesammelte Abhandlungen</i> , (J.P. Serre, ed.), 3 vol., Springer: Berlin, 1968
Fundamental theorem of algebra (Gauss)	1799	Gauss, C.F. <i>Werke</i> 1799 , <u>3</u> , 1
Fundamental theorem of arithmetic	?	
Fundamental theorem of calculus	?	
fundamental theorem of mathematical statistics (Cantelli, Francesco)	1916	Cantelli, F.P. <i>Giorn. Ist. Ital. Attuari</i> 1933 , <u>4</u> , 421 Glivenko, V. <i>Giorn. Ist. Ital. Attuari</i> 1933 , <u>4</u> , 92 Kolmogorov, A.N. <i>Giorn. Ist. Ital. Attuari</i> 1933 , <u>4</u> , 83
Galois group theory	1830	Galois, E. <i>Ecrits Mem. Math.</i> 1831 , 43; 163

game theory (Borel)	1921	Borel, E. <i>Compt. Rend.</i> 1921 , <u>173</u> , 1302 Borel, E. <i>Compt. Rend.</i> 1924 , <u>178</u> , 24 Borel, E. <i>Compt. Rend.</i> 1927 , <u>184</u> , 52 Frechet; von Neumann, J. <i>Econometrica</i> 1953 , <u>21</u> , 95 (English translation)
Gauss integral formula	1863	Gauss, C.F. <i>Werke</i> , 12 vol., Göttingen, 1870 - 1927
gauss unit of magnetic field strength	1841	Gauss, C., <i>Commentationes Societatis regiae Scientiarum Gottingensis recentiores</i> , 1841 , <u>8</u> , ? Gauss, C.F. <i>Werke</i> , 12 vol., Göttingen, 1870 - 1927
Gauss' law	1877	Gauss, C.F. <i>Werke</i> , 12 vol., Göttingen, 1870 - 1927
Gauss-Jordan elimination	?	Gauss, C.F. <i>Werke</i> , 12 vol., Göttingen, 1870 - 1927
Gauss-Seidel iteration	?	Gauss, C.F. <i>Werke</i> , 12 vol., Göttingen, 1870 - 1927
Gaussian curvature	1828	Gauss, C.F. <i>Disquisitiones generales circa superficies</i> , 1828 Gauss, C.F. <i>Werke</i> , 12 vol., Göttingen, 1870 - 1927 Index of Biographies, University of St. Andrews, Mathematical Chronology http://www-groups.dcs.st-and.ac.uk/~history/BioIndex.html
Gaussian distribution (de Moivre)	1733	De Moivre, A. <i>Miscellanea Analytica</i> , 1730 Index of Biographies, University of St. Andrews, Mathematical Chronology http://www-groups.dcs.st-and.ac.uk/~history/BioIndex.html
Gaussian function (de Moivre)	1733	De Moivre, A. <i>Miscellanea Analytica</i> , 1730
Gelfond conjecture	1929	Gelfond, A.O. <i>Compt. Rend.</i> 1929 , <u>189</u> , 1224 Gelfond, A.O. <i>Matematischeskii sbornik</i> 1940 , <u>7</u> [49], 7
general method of expanding determinants (Laplace)	1772	Laplace, P.S. <i>Oeuvres</i> , 14 vol., Gauthier-Villars: Paris, 1878 - 1912
geometric addition of forces (Stevin, Simon)	1586	Stevin, S. <i>Les Oeuvres Mathematiques</i> , (A. Girard, ed.) Leyde (Elzevir), 1634
Gibbs vector analysis	1881	Gibbs, J.W. <i>Nature</i> 1891 , <u>43</u> , 511 Wilson, E.B. <i>Vector Analysis Founded Upon the Lectures of J. Willard Gibbs</i> , New York, 1901
Goedel incompleteness theorem	1931	Goedel, K. <i>Montasch. Math. Phys.</i> 1931 , <u>38</u> , 173
Goldbach conjectures	1742	Letter to Euler, 1742 Index of Biographies, University of St. Andrews, Mathematical Chronology http://www-groups.dcs.st-and.ac.uk/~history/BioIndex.html
golden section (ratio)	antiquity	

Gompertz law of mortality	1825	Gompertz, B. <i>Phil. Trans. Roy. Soc.</i> 1825 , <u>115A</u> , 513
Gram-Schmidt orthogonalization	1908	Schmidt, E. <i>Rend. Palermo</i> 1908 , <u>25</u> , 53
greater (less) than or equal to symbols (Bouguer)	1734	
greatest common divisor, GCD (Euclidean algorithm)	?	Euclid, <i>Elementa</i> , 5 vol., (J.L. Heiberg, ed.), Teubner: Leipzig, 1883 – 1888 <i>Stoicheion (The Elements)</i>
Greek letter symbol for pi (Jones)	1706	Index of Biographies, University of St. Andrews, Mathematical Chronology http://www-groups.dcs.st-and.ac.uk/~history/BioIndex.html
Green's theorem	1828	Green, G. <i>An Essay on the Application of Mathematical Analysis to the Theories of Electricity and Magnetism</i> , 1828
group characters (Frobenius)	1895	Frobenius, G.F. <i>Sitzungsber. Preussischen Akad. Wiss. Berlin</i> 1895 , 81 Frobenius, G.F. <i>Monatsber. Preussischen Akad. Wiss. Berlin</i> 1897 , 994 Frobenius, G.F. <i>Monatsber. Preussischen Akad. Wiss. Berlin</i> 1899 , 482 Frobenius, G.F. <i>Monatsber. Preussischen Akad. Wiss. Berlin</i> 1906 , 186
Guldin centroid theorem	1620	Index of Biographies, University of St. Andrews, Mathematical Chronology http://www-groups.dcs.st-and.ac.uk/~history/BioIndex.html
Guldin's first and second rules	1635	
Haar measure on groups	1932	Haar, A. <i>Ann. Math.</i> 1933 , <u>34</u> , 147
Hadamard determinant inequality	1893	Hadamard, J. <i>Bull. Sci. Math.</i> 1893 , <u>17</u> (Part 1), 240
Hadamard matrices	1893	Hadamard, J. <i>Bull. Sci. Math.</i> 1893 , <u>17</u> (Part 1), 240
Hadamard proof of prime number theorem	1896	
Hadamard transforms	?	
Hajek formulation of rank tests	1967	Hajek, J.; Sidak, Z. <i>Theory of Rank Tests</i> , Academic Press: NY, 1967
Hamilton equations	1835	Hamilton, W.R. <i>Phil. Trans. Roy. Soc. A</i> 1835 , <u>1</u> , 95
Hamilton quaternions	1843	Hamilton, W.R. <i>Lectures on Quaternions</i> , Dublin, 1853 Hamilton, W.R. <i>Proc. Roy. Soc. London</i> 1843 – 1850 , <u>5</u> , 865
Hamiltonian operator	1830	Hamilton, W.R., <i>Trans. Roy. Irish Acad.</i> 1828 , <u>15</u> , 69 Hamilton, W.R., <i>Trans. Roy. Irish Acad.</i> 1830 , <u>16</u> , 1 Hamilton, W.R., <i>Trans. Roy. Irish Acad.</i> 1831 , <u>16</u> , 93 Hamilton, W.R., <i>Trans. Roy. Irish Acad.</i> 1837 , <u>17</u> , 1
Hankel functions	1867	Hankel, W.G. <i>Ann. Physik Chem.</i> 1865 , <u>126</u> , 440 Hankel, W.G. <i>Ann. Physik Chem.</i> 1867 , <u>131</u> , 607; 621

Hardy-Weinberg law of inheritance	1908	Hardy, G.H. <i>Science</i> 1908 , <u>28</u> , 49
Hausdorff dimension	1919	Hausdorff, F. <i>Grundzuege der Mengenlehre</i> , Leipzig, 1914
Heaviside function	?	
Heaviside transform	?	
Heine-Borel theorem	1872	Heine, E. <i>J. de Crelle</i> 1872 , <u>74</u> , 172
Hermite polynomial	1858	Hermite, C. <i>Compt. Rend.</i> 1864 , <u>58</u> , 93 Hermite, C. (E. Picard, ed.) <i>Oeuvres</i> , 4 vol., Gauthier-Villars: Paris, 1905 - 1917
Hermitian operator	?	Hermite, C. (E. Picard, ed.) <i>Oeuvres</i> , 4 vol., Gauthier-Villars: Paris, 1905 - 1917
Heron's formula	60	<i>Metrica</i> Index of Biographies, University of St. Andrews, Mathematical Chronology http://www-groups.dcs.st-and.ac.uk/~history/BioIndex.html
Hessian determinant, matrix	1842	Hesse, O. <i>J. reine angew. Math.</i> 1844 , <u>28</u> , 68
Hilbert problems	1900	Hilbert, D. <i>Gottinger Nachrichten</i> 1900 , 253 Hilbert, D. <i>Gesammelte Abhandlungen</i> 1900 , <u>3</u> , 290
Hilbert space	1930	Hilbert, D. <i>Grundlagen der Geometrie</i> , 7 th ed., Teubner: Leipzig-Berlin, 1930
Hilbert transforms	1930	Hilbert, D. <i>Grundlagen der Geometrie</i> , 7 th ed., Teubner: Leipzig-Berlin, 1930
Hoelder inequality	1889	Hoelder, O. <i>Math. Ann.</i> 1889 , <u>34</u> , 26
Hopf homology groups, invariant	1931	Hopf, H. <i>Math. Ann.</i> 1931 , <u>104</u> , 637 Hopf, H. <i>Comm. Math. Helvetici</i> 1933 , <u>5</u> , 39
Hopf knot, Hopf manifolds	1941	Hopf, H. <i>Ann. Math.</i> 1941 , <u>42</u> , 22
Horner's method for solving algebraic equations	1819	Horner, W. <i>Phil. Trans. Roy. Soc. A</i> 1819 , <u>109A</u> (Pt. 2), 308
hyperbolic functions (Riccati, V.)	1757	Riccati, V. <i>Opusculorum ad res physicas et mathematicas pertinentinum</i> , 2 vols., Bologna, 1757 – 1762 Riccati, V.; Saladini, G. <i>Institutiones analyticae</i> , 2 vols., Bologna, 1765 - 1767
hyperbolic geometry (Lobachevsky)	1826	Lobachevsky, N.I. <i>Kazanski vestnik</i> 1826 Lobachevsky, N.I. <i>Geometrische Untersuchungen zur Theorie der Parallelinien</i> , Berlin, 1840 Lobachevskii, N.I. <i>Zwei geometrische Abhandlungen</i> , Teubner, 1898 Lobachevsky, N.I. <i>Crelle's J.</i> 1842 Lobachevsky, N.I. <i>Geometriya</i> , 1909
hyperbolic spiral (Varignon, Pierre)	1704	
Imaginary numbers (Argand)	1806	Argand, J.R. <i>Essai sur une maniere de représenter les quantités imaginaires</i>

		<i>dans les constructions geometriques</i> , Paris, 1806
impossible triangle (Reutersvard, Oscar)	1934	
inductive proofs (Maurolico)	1575	<i>Arithmeticonum libri duo</i> Index of Biographies, University of St. Andrews, Mathematical Chronology http://www-groups.dcs.st-and.ac.uk/~history/BioIndex.html
inequality symbols (Harriot, Thomas)	1631	Index of Biographies, University of St. Andrews, Mathematical Chronology http://www-groups.dcs.st-and.ac.uk/~history/BioIndex.html
information theory (Shannon)	1948	Shannon, C.E. <i>Bell System Tech. J.</i> 1948 , <u>27</u> , 379; 623 Shannon, C.E.; Weaver, W. <i>The Mathematical Theory of Communication</i> , University of Illinois Press: Urbana, 1949.
integral notation (Leibniz)	1675	Index of Biographies, University of St. Andrews, Mathematical Chronology http://www-groups.dcs.st-and.ac.uk/~history/BioIndex.html
Jacobian determinant	1842	Jacobi, C.G.J. <i>J. reine angew. Math.</i> 1842 , <u>22</u> , 285; 319 Jacobi, C.G.J. <i>Gesammelte Werke</i> , 7 vol., G. Reimer: Berlin, 1881 - 1891
Jacobian matrix	1830	Jacobi, C.G.J. <i>Gesammelte Werke</i> , 7 vol., G. Reimer: Berlin, 1881 - 1891
Jaenisch magic square	?	
Jones knot polynomial	1985	Jones, V. <i>Bull. Amer. Math. Soc.</i> 1985 , <u>12</u> , 103 Jones, V.F.R. <i>Notices Amer. Math. Soc.</i> 1986 , <u>33</u> , 219
Jordan curve	1893	Jordan, C. <i>J. Math. Ser. 4</i> 1892 , <u>8</u> , 69 Jordan, C. <i>Cours d'Analyse de l'Ecole Polytechnique</i> , 3 rd ed., 3 vol., Gauthier-Villars: Paris, 1909 - 1915
Julia set	?	
KAM theory (Kolmogorov, Arnold, Moser)	1954	Kolmogorov, A.N. <i>Dokl. Akad. Nauk SSSR</i> 1953 , <u>93</u> , 763; 1954 , <u>98</u> , 527 Arnold, V.I. <i>Russian Math. Surveys</i> 1963 , <u>18</u> (5), 9 Moser, J. <i>Nachr. Akad. Wissen. Göttingen</i> 1962 , <u>1</u> , 1
Kepler's first law	1609	Kepler, J. <i>Astronomica Nova</i> , (1609)
Kepler's second law	1621	Kepler, J. <i>Epitome Astronomiae Copernicanae</i> , Book V (1621)
Kepler's third law	1619	Kepler, J. <i>Harmonice Mundi</i> (1619)
Klein bottle	1871	Klein, F. <i>Math. Ann.</i> 1871 , <u>4</u> , 573 Klein, F. <i>Gesammelte Math. Abh.</i> 1871 , <u>1</u> , 254 Klein, F. <i>Math. Ann.</i> 1874 , <u>7</u> , 549 Klein, F. <i>Gesammelte Math. Abh.</i> 1874 , <u>2</u> , 63

		Klein, F. <i>Gesammelte Math. Abh.</i> , 3 vol., Springer: Berlin, 1921 - 1923
Koch curves	1906	Koch, H. von <i>Acta Math.</i> 1906 , <u>30</u> , 145
Koenigsberg bridges problem (Euler)	1736	Euler, L. <i>Opera Omnia</i> , 46 vol., Teubner and O. Fussli: Leipzig, 1911 - 1957
Kronecker delta	1881	Kronecker, L. <i>Monatsber. Koenig. Preuss. Akad. Wiss. Berlin</i> 1881 , 535 Kronecker, L. <i>Werke</i> 1881 , <u>2</u> , 113 Kronecker, L. <i>Werke</i> , 5 vol., Teubner: Leipzig, 1895 - 1930
Krull-Schmidt theorem	1925	Krull, W. <i>Math. Zeitschr.</i> 1925 , <u>23</u> , 161
Kuratowski theorem on planar graphs	1930	Kuratowski, K. <i>Topologie I</i> , 2 nd ed. Warszawa-Wroclaw, 1948
L'Hôpital's rule	1690	De L'Hopital, G.F.A. <i>Analyse des infiniment petits</i> , Paris, 1696
Lagrange bracket	?	Lagrange, J.L.. (J.A. Serret, ed.) <i>Oeuvres</i> , Vol. 6, Gauthier-Villars: Paris, 1867 – 1892
Lagrange differential equation	?	Lagrange, J.L.. (J.A. Serret, ed.) <i>Oeuvres</i> , 14 vol., Gauthier-Villars: Paris, 1867 - 1892
Lagrange equations of motion	?	Lagrange, J.L. <i>Mecanique analytique</i> , 1788 (A. Blanchard, ed.), 1965 Lagrange, J.L.. (J.A. Serret, ed.) <i>Oeuvres</i> , Vol. 1, <i>Sur l'integration d'une equation differentielle</i> , Gauthier-Villars: Paris, 1867 – 1892, pp. 21 - 36
Lagrange identity	?	Lagrange, J.L.. (J.A. Serret, ed.) <i>Oeuvres</i> , 14 vol., Gauthier-Villars: Paris, 1867 – 1892
Lagrange interpolation formula	?	Lagrange, J.L.. (J.A. Serret, ed.) <i>Oeuvres</i> , 14 vol., Gauthier-Villars: Paris, 1867 – 1892
Lagrange mean value theorem	?	Lagrange, J.L.. (J.A. Serret, ed.) <i>Oeuvres</i> , 14 vol., Gauthier-Villars: Paris, 1867 – 1892
Lagrange method for reducing quadratic forms	1759	Lagrange, J.L.. (J.A. Serret, ed.) <i>Oeuvres</i> , 14 vol., Gauthier-Villars: Paris, 1867 – 1892
Lagrange multipliers	?	Lagrange, J.L.. (J.A. Serret, ed.) <i>Oeuvres</i> , 14 vol., Gauthier-Villars: Paris, 1867 – 1892
Lagrange principle of stationary action	?	Lagrange, J.L.. (J.A. Serret, ed.) <i>Oeuvres</i> , Vol. 1., <i>Essai d'une nouvelle methode pour determiner les maxima et les minima des formules integrales indefinies</i> , Gauthier-Villars: Paris, 1867 – 1892, pp. 333 - 362
Lagrange series	1770	Lagrange, J.L.. (J.A. Serret, ed.) <i>Oeuvres</i> , 14 vol., Gauthier-Villars: Paris, 1867 – 1892
Lagrange spectrum	?	Lagrange, J.L.. (J.A. Serret, ed.) <i>Oeuvres</i> , 14 vol., Gauthier-Villars: Paris, 1867 – 1892

Lagrange stability	?	Lagrange, J.L.. (J.A. Serret, ed.) <i>Oeuvres</i> , 14 vol., Gauthier-Villars: Paris, 1867 – 1892
Lagrange theorem in differential calculus	?	Lagrange, J.L.. (J.A. Serret, ed.) <i>Oeuvres</i> , 14 vol., Gauthier-Villars: Paris, 1867 – 1892
Lagrange theorem in group theory	?	Lagrange, J.L.. (J.A. Serret, ed.) <i>Oeuvres</i> , 14 vol., Gauthier-Villars: Paris, 1867 – 1892
Lagrange theorem on congruences Lagrange theorem of divisibility	?	Lagrange, J.L.. (J.A. Serret, ed.) <i>Oeuvres</i> , Vol. 2, <i>Nouvelle methode pour resoudre les problemes indetermines en nombres entiers</i> , Gauthier-Villars: Paris, 1867 – 1892
Lagrange theorem on continued fractions	?	Lagrange, J.L.. (J.A. Serret, ed.) <i>Oeuvres</i> , Vol. 2, <i>Sur la solution des problemes indetermines du second degre</i> , Gauthier-Villars: Paris, 1867 – 1892
Lagrange theorem on sum of four squares	?	Lagrange, J.L.. (J.A. Serret, ed.) <i>Oeuvres</i> , Vol. 3., <i>Demonstration d'un theoreme d'arithmetique</i> , Gauthier-Villars: Paris, 1867 – 1892, pp. 187 - 201
Lagrangian	?	Lagrange, J.L.. (J.A. Serret, ed.) <i>Oeuvres</i> , 14 vol., Gauthier-Villars: Paris, 1867 - 1892
Laguerre polynomials	1878	Laguerre, E. <i>Bull. Soc. Math. Fr.</i> 1878 , <u>6</u> , 72 Laguerre, E. <i>Oeuvres</i> , 2 vol., Gauthier-Villars: Paris, 1898 - 1905
Lame coefficients	1859	Lame, G. <i>Lecons sur les coordonnees curvilinear et leurs diverses applications</i> , Paris, 1859
Lame theorem, Lamé equation	1837	Lame, G. <i>J. math. Pures Appl.</i> 1837 , <u>2</u> , 147
Laplace method of asymptotic estimation	?	Laplace, P.S. <i>Oeuvres</i> , Vol. 7, <i>Essai philosophique sur les probabilite</i> , Gauthier-Villars, Paris, 1886
Laplace theorem on approximating binomial distribution by normal distribution	1812	Laplace, P.S. <i>Theorie analytique des probabilites</i> , Paris, 1812
Laplace transform method	1782	Laplace, P.S. <i>Memoire sur la theorie de l'anneau de Saturne</i> , <i>Hist. Acad. Sci.</i> , Paris, 1777 Laplace, P.S. <i>Memoires de l'Acad. Roy. Sciences Paris</i> 1779 – 1782 , 207 - 309 Laplace, P.S. <i>Memoires de l'Acad. Roy. Sciences Paris</i> 1782 – 1785 , 1 - 88 Laplace, P.S. <i>Oeuvres</i> , 14 vol., Gauthier-Villars: Paris, 1878 – 1912, Vol. 10, p. 1 – 89; 209 - 91
Laplace's equation	1789	Laplace, P.S. <i>Memoires de l'Acad. Roy. Sciences Paris</i> 1787 – 1789 , 249 - 267 Laplace, P.S. <i>Oeuvres</i> , 14 vol., Gauthier-Villars: Paris, 1878 – 1912, Vol. 11,

		275 - 292
Laplacian operator, Laplacian	1789	Laplace, P.S. <i>Oeuvres</i> , 14 vol., Gauthier-Villars: Paris, 1878 - 1912
Lasker ring	1905	Lasker, E. <i>Math. Annalen</i> 1905 , <u>60</u> , 20
law of cosines (Viète)	1646	Vieta, Francisci <i>Opera Mathematica</i> Lugduni Batavorum (Elzevir), 1646
law of large numbers (Poisson)	1837	Poisson, S. <i>Recherches sur la probabilité des jugements en matière criminelle et en matière civile</i> , Paris, 1837 Index of Biographies, University of St. Andrews, Mathematical Chronology http://www-groups.dcs.st-and.ac.uk/~history/BioIndex.html
law of quadratic reciprocity (Gauss)	1796	Gauss, C.F. <i>Werke</i> , 12 vol., Göttingen, 1870 – 1927
law of sines (Ptolemy of Alexandria)	150	Index of Biographies, University of St. Andrews, Mathematical Chronology http://www-groups.dcs.st-and.ac.uk/~history/BioIndex.html
law of tangents (Fincke, Thomas)	1583	
laws of probability (Fermat, Pascal)	1654	Pascal, B. <i>Traite du triangle arithmétique, avec quelques autres petits traités sur la même manière</i> , 1654 Pascal, B. <i>Oeuvres</i> , 14 vol., Hachette: Paris, 1904 – 1914 Fermat, P. <i>Oeuvres</i> , 5 vol., Gauthier-Villars: Paris, 1891 - 1922
least common denominator (LCD)	?	
Lebesgue integral	1902	Lebesgue, H. <i>Ann. Math. Ser. 3</i> 1902 , <u>7</u> , 231 Lebesgue, H. <i>Leçons sur l'intégration et la recherche des fonctions primitives</i> , Gauthier-Villars: Paris, 1904
Legendre polynomial	1784	Legendre, A.M. <i>Recherches sur la figure des planètes</i> , 1784 Index of Biographies, University of St. Andrews, Mathematical Chronology http://www-groups.dcs.st-and.ac.uk/~history/BioIndex.html
Legendre transform	1787	Legendre, A.M. <i>Mémoire de l'Acad. Sci.</i> 1787 , 309
Leibniz calculus	1684	Leibniz, G.W. <i>Acta Eruditorum</i> 1684 , <u>3</u> , 467 Leibniz, G.W. <i>Mathematische Schriften</i> 1684 , <u>5</u> , 220 Leibniz, G.W. <i>Nova Methodus pro Maximis et Minimis, itemque Tangentibus</i> , 1684 Index of Biographies, University of St. Andrews, Mathematical Chronology http://www-groups.dcs.st-and.ac.uk/~history/BioIndex.html
Leibniz formula	1682	Index of Biographies, University of St. Andrews, Mathematical Chronology http://www-groups.dcs.st-and.ac.uk/~history/BioIndex.html
Leontief matrix	1936	Leontief, W. <i>Rev. Economic Statist.</i> 1936 , 18, 105

		Leontief, W. <i>Input-Output Economics</i> , Oxford University Press: New York, 1966
Lie algebra	1888	Lie, S. <i>Gesammelte Abhandlungen</i> , 7 vol., Teubner: Leipzig Lie, S.; Engel, F. <i>Theorie der Transformationsgruppen</i> , 3 vol., Teubner: Leipzig, 1888 - 1893
limit notation (L'Huilier, Simone)	?	
Lindeberg-Levy proof of central limit theorem	1925	Levy, P. <i>Calcul des Probabilites</i> , Gauthier-Villars: Paris, 1925 Lindeberg, J.W. <i>Math. Zeit.</i> 1922 , <u>15</u> , 221
Liouville theorem	1836	Liouville, J. <i>J. Ecole Polytechnique</i> 1833 , <u>23</u> , 37
Listing knot	1847	Listing, J.B. <i>Vorstuden zur Topologie</i> , Göttingen, 1847
Litchfield-Wilcoxon method for evaluating dose-effect experiments	1949	Litchfield, J.T. Jr.; Wilcoxon, F. <i>J. Pharmacology</i> 1949 , <u>96</u> , 99 Litchfield, J.T. Jr.; Wilcoxon, F. <i>J. Pharmacology</i> 1953 , <u>108</u> , 18
Lorenz attractor	1963	Lorenz, E.N. <i>J. Atmos. Sci.</i> 1963 , <u>30</u> , 130
Lorentz transformation	1895	Lorentz, H.A. <i>Versuch einer Theorie der elektrischen und optischen Erscheinungen in bewegten Korpen</i> , E.J. Brill: Leiden, 1895
Lorentzian function	1895	Lorentz, H.A. <i>Versuch einer Theorie der elektrischen und optischen Erscheinungen in bewegten Korpen</i> , E.J. Brill: Leiden, 1895
loxodromic spiral (Nunez, Pedro)	1533	
Lucas numbers, sequence	?	
Lyapunov exponent	1899	Lyapunov, A.M. <i>The General Problem of the Stability of Motion</i> , Ph.D. thesis, St. Petersburg, 1899; <i>Annales de la Faculte des sciences de l'Universitie de Toulouse</i> , 2 nd ser. 1907 , <u>9</u> , 203; <i>Annals of Mathematics No. 17</i> , Princeton, 1947
Maclaurin series	1742	Maclaurin, C. <i>A Treatise of Fluxions Vol. 1 and 2</i> , Edinburgh, 1742
magic circle (Hui, Yang)	1275	<i>Cheng Chu Tong Bian Ben Mo (Alpha and Omega of variations on multiplication and division)</i> Index of Biographies, University of St. Andrews, Mathematical Chronology http://www-groups.dcs.st-and.ac.uk/~history/BioIndex.html
magic cube (Chhi-shou, Pao)	?	
magic squares (Chinese mathematicians)	90	Index of Biographies, University of St. Andrews, Mathematical Chronology http://www-groups.dcs.st-and.ac.uk/~history/BioIndex.html
Mandelbrot set	1967	Mandelbrot, B. <i>Les objets fractals, forn, hasard et dimension</i> , Nouvelle Bibliotheque Scientifique: Paris, 1975 Mandelbrot, B. <i>Proc. Natl. Acad. Sci. USA</i> 1975 , <u>72</u> , 3825 Mandelbrot, B. <i>Compt. Rend. Ser. A-B</i> 1976 , <u>282</u> , A119

		Mandelbrot, B. <i>Lecture Notes in Mathematics</i> 1976 , <u>565</u> , 121 - 145 Mandelbrot, B. <i>Fractals: form, chance, and dimension</i> , W.H. Freeman, 1977 Mandelbrot, B. <i>Bull. Inst. Math. Appl.</i> 1977 , <u>13</u> , 189
mantissa and characteristic of logarithm (Briggs)	1624	Briggs, H. <i>Arithmetica logarithmica, sive logarithmorum chiliades triginta</i> , London, 1624
Markov chains, Markov processes	1906	Index of Biographies, University of St. Andrews, Mathematical Chronology http://www-groups.dcs.st-and.ac.uk/~history/BioIndex.html
mathematical induction term (de Morgan)	1838	De Morgan, A. <i>An Essay on Probabilities and on their Application to Life Contingencies and Insurance Offices</i> , London, 1838 De Morgan, A. <i>First Notions of Logic, Preparatory to the Study of Geometry</i> , London, 1839
Mathieu functions Mathieu equation	1868	Mathieu, E.L. <i>Journal de Math.</i> 1868 , <u>13</u> , 137 Mathieu, E.L. <i>Compt. Rend. Acad. Sci.</i> 1868 , <u>66</u> , 530
matrix name (Sylvester)	1850	Sylvester, J.J. <i>On a New Class of Theorems</i> , 1850 Sylvester, J.J. <i>Collected Mathematical Papers, Vol. 1 – 4</i> , Cambridge, 1904 – 1911 Index of Biographies, University of St. Andrews, Mathematical Chronology http://www-groups.dcs.st-and.ac.uk/~history/BioIndex.html
Maxwell's equations for electromagnetism	1865	Maxwell, J.C., <i>Phil. Trans.</i> 1865 , <u>155</u> , 459 Maxwell, J.C., <i>Treatise on Electricity and Magnetism</i> , Oxford Clarendon Press: Oxford: 1892
Mellin transforms	1896	Mellin, H. <i>Acta Soc. Sci. Fennicae</i> 1896 , <u>21</u> , 1 Mellin, H. <i>Acta Math.</i> 1902 , <u>25</u> , 139 Mellin, H. <i>Acta Math.</i> 1902 , <u>25</u> , 165
Menelaus' theorem	100	Index of Biographies, University of St. Andrews, Mathematical Chronology http://www-groups.dcs.st-and.ac.uk/~history/BioIndex.html
Mercator projection	1569	
Mersenne numbers, primes	1644	
method of least squares (Legendre)	1810	Legendre, A.M. <i>Memoires de l'Institut National des Sciences et Arts</i> , 1810 , Part 2, 149
minimization of areas problem solution (Besicovitch)	1925	Index of Biographies, University of St. Andrews, Mathematical Chronology http://www-groups.dcs.st-and.ac.uk/~history/BioIndex.html
Minkowski inequality	1896	Minkowski, H. <i>Geometrie der Zahlen</i> , Teubner: Leipzig, 1896

Mobius function	1831	Mobius, <i>Über eine besondere Art von Umkehrung der Reihen</i> , 1831 Index of Biographies, University of St. Andrews, Mathematical Chronology http://www-groups.dcs.st-and.ac.uk/~history/BioIndex.html
Mobius inversion formula	1832	Mobius, <i>J. reine angew. Math.</i> 1832 , <u>9</u> , 105
Möbius strip	1858/1863	Mobius, A.F. <i>Ber. Verhandl. Konigl. Sachs. Ges. Wissen. Math.-phys. Klasse</i> , 1863 , <u>15</u> , 18 - 57 (reprinted in Klein, F. <i>August Ferdinand Mobius Gesammelte Werke</i> , Vol. 2, S. Hirzel: Leipzig, 1886, pp. 433 - 472) Mobius, A.F. <i>Ber. Verhandl. Konigl. Sachs. Ges. Wissen. Math.-phys. Klasse</i> , 1865 , <u>17</u> , 31 - 68 (reprinted in Klein, F. <i>August Ferdinand Mobius Gesammelte Werke</i> , Vol. 2, S. Hirzel: Leipzig, 1886, pp. 473 - 512) Klein, F. <i>August Ferdinand Mobius Gesammelte Werke</i> , Vol. 2, S. Hirzel: Leipzig, 1886, pp. 519 - 559 Listing, J.B. <i>Vorstuden zur Topologie</i> , Göttingen, 1847 Listing, J.B. <i>Abh. K. Ges. Wiss. Goettingen Math. Cl.</i> 1861 - 1862 , <u>10</u> , 97
modular arithmetic (Gauss)	?	Gauss, C.F. <i>Werke</i> , 12 vol., Göttingen, 1870 – 1927
Monte Carlo methods (J. von Neumann; Ulam, Stanislav)	1930	Ulam, S. <i>Fund. Math.</i> 1930 , <u>15</u> , 140 Von Neumann, J. <i>Math. Zeitschr.</i> 1927 , <u>26</u> , 1 Von Neumann, J. <i>Math. Ann.</i> 1928 , <u>100</u> , 295 Von Neumann, J.; Morgenstern, O. <i>Theory of Games and Economic Behavior</i> , Princeton University Press: Princeton, NJ, 1944
n-dimensional geometry (Grassmann)	1844	Grassmann, H.G. <i>J. reine angew. Math.</i> 1848 , <u>36</u> , 177 Grassmann, H.G. <i>J. reine angew. Math.</i> 1852 , <u>42</u> , 187 Grassmann, H.G. <i>J. reine angew. Math.</i> 1852 , <u>44</u> , 1 Grassmann, H.G. <i>J. reine angew. Math.</i> 1855 , <u>49</u> , 21 Grassmann, H.G. <i>J. reine angew. Math.</i> 1855 , <u>49</u> , 1 Grassmann, H.G. <i>J. reine angew. Math.</i> 1856 , <u>52</u> , 254 Grassmann, H.G. <i>Die lineale Ausdehnungslehre, ein neuer Zweig der Mathematik</i> , 1844 Grassmann, H.G. (F. Engel, ed.) <i>Mathematische und physikalische Werke</i> , 3 vols., Leipzig, 1894 - 1911

Napier (natural) logarithms	1614	Napier, J. <i>Mirifici logarithmorum canonis descriptio</i> , Lyon, 1619
Napier's rules	1614	Napier, J. <i>Mirifici logarithmorum canonis descriptio</i> , Lyon, 1619
Napierian base	1614	Napier, J. <i>Mirifici logarithmorum canonis descriptio</i> , Lyon, 1619
natural numbers (Peono)	1889	Peono, G. <i>Arithmeticas principia, novo methodo exposita</i> , Torino, 1889
Navier-Stokes equations	1827	Navier, L. <i>Mem. Acad. Sci.</i> 1827 , <u>7</u> , 375 Stokes, G.G. <i>Trans. Cambr. Phil. Soc.</i> 1843 , <u>8</u> , 287
negative numbers (Chinese mathematicians)	-200	
Newton calculus	1704	Newton, I. <i>The Mathematical Papers of Isaac Newton</i> , Cambridge University Press: Cambridge, 1967 – 1981, Vol. 1, 245 Newton, I. <i>The Mathematical Papers of Isaac Newton</i> , Cambridge University Press: Cambridge, 1967 – 1981, Vol. 3, 32
Newton-Raphson Method	?	
non-parametric tests: signed rank test, rank sum test (Wilcoxon, F.)	1945	Wilcoxon, F. <i>Biometrics</i> 1945 , <u>1</u> , 80 Wilcoxon, F. <i>J. Econ. Entom.</i> 1946 , <u>89</u> , 269 Litchfield, J.T. Jr.; Wilcoxon, F. <i>Anal. Chem.</i> 1955 , <u>27</u> , 299
notation of correlation (Galton)	1888	Galton, F. <i>Hereditary Genius</i> , Macmillan: London, 1869 Galton, F. <i>Proc. Roy. Inst. Gr. Brit.</i> 1877 , <u>8</u> , 282 Galton, F. <i>J. Anthropol. Inst.</i> 1885 , <u>15</u> , 246 Galton, F. <i>Proc. Roy. Soc. London</i> 1886 , <u>40</u> , 42 Galton, F. <i>Proc. Roy. Soc. London</i> 1888 , <u>45</u> , 135
number zero (Brahmagupta)	628	Brahmagupta <i>Brahma-sphuta-siddhanta</i> , 628 Index of Biographies, University of St. Andrews, Mathematical Chronology http://www-groups.dcs.st-and.ac.uk/~history/BioIndex.html
p-adic numbers (Hensel)	1897	Hensel, K. <i>Nachr. Göttingen</i> 1897 , 297
Parseval theorem	1799	
partial derivative notation (Lagrange)	1788	Lagrange, J. <i>Mecanique Analytique</i> , 1788 Index of Biographies, University of St. Andrews, Mathematical Chronology http://www-groups.dcs.st-and.ac.uk/~history/BioIndex.html
Pascal law of pressure	1654	Pascal, B. <i>Treatise on the Equilibrium of Liquids</i> , 1654 Pascal, B. <i>Traite du triangle arithmetique, avec quelquess autres petits traites sur la meme manieres</i> , 1654 Pascal, B. <i>Oeuvres</i> , 14 vol., Hachette: Paris, 1904 – 1914

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Pascal's binomial theorem (Newton)	1665	Newton, I. <i>The Mathematical Papers of Isaac Newton</i> , Cambridge University Press: Cambridge, 1967 – 1981, Vol. 1, 492 Index of Biographies, University of St. Andrews, Mathematical Chronology http://www-groups.dcs.st-and.ac.uk/~history/BioIndex.html
Pascal's theorem (geometry)	1639	Pascal, B. <i>Oeuvres</i> , 14 vol., Hachette: Paris, 1904 - 1914
Pascal's triangle	1653	Pascal, B. <i>Traite du triangle arithmetique, avec quelquess autres petits traites sur la meme manieres</i> , 1654 Pascal, B. <i>Oeuvres</i> , 14 vol., Hachette: Paris, 1904 - 1914
Pell number sequence	1650	
Pell's equation	1650	
Penrose tiles	?	
Penrose tribar	1958	Penrose, L.S.; Penrose, R. <i>Brit. J. Psychology</i> 1958 , <u>49</u> , 31
Peono axioms	1889	Peono, G. <i>Arithmeticas principia, novo methodo exposita</i> , Torino, 1889
Peono curve	1890	Peono, G. <i>Math. Ann.</i> 1890 , <u>37</u> , 182
Petersen graph	1898	Petersen, J.P.C. <i>L'Intermediaire des Mathematiciens</i> 1898 , <u>5</u> , 225
Pfaffian forms	1815	Pfaff, J.F. <i>Abh. Preussischen Akad. Wiss.</i> 1814 – 1815 , 76 Kowalewski, G. (trans.) <i>Ostwald's Klassiker der exakten Wissen. No. 129</i> , Leipzig, 1902 Jacob, C. <i>J. reine angew. Math.</i> 1827 , <u>2</u> , 347
pi is transcendental (von Lindemann, Ferdinand)	1882	Lindemann, C. <i>Math. Ann.</i> 1882 , <u>20</u> , 213
Picard big theorem	1878	Picard, C.E. <i>Compt. Rend.</i> 1878 , <u>87</u> , 430; 743
Picard little theorem	1880	Picard, C.E. <i>Ann. Scientifiques de l'Ecole Normale Superieure</i> , 1880 , 9[2], 145
Plateau problems of minimal surfaces	1873	Plateau, J. <i>Statique experimentale et theorique des liquides soumis aux seules forces moleculaires</i> , 2 vols., Ghent-Paris, 1873 Henry, J. (transl.) <i>Annual Report of the Board of Regents of the Smithsonian Institution</i> 1863 , 207; 1864 , 285; 1865 , 411; 1866 , 255
Platonic solids	?	
Poincare conjecture	1904	Poincare, H. <i>Palermo Rend.</i> 1904 , <u>18</u> , 45 Poincare, H. <i>Oeuvres</i> 1904 , <u>6</u> , 435
Poincaré theorem	1895	Poincare, H. <i>J. Ecole Polytechnique</i> 1895 , <u>1</u> [2], 1

		Poincare, H. <i>Oeuvres</i> 1895 , <u>6</u> , 193
Poisson distribution	1837	Poisson, S. <i>Recherches sur la probabilit� des jugements en matiere criminelle et en matiere civile</i> , Paris, 1837
Poisson equation	1837	Poisson, S. <i>Recherches sur la probabilit� des jugements en matiere criminelle et en matiere civile</i> , Paris, 1837
Poisson ratio	1837	Poisson, S. <i>Recherches sur la probabilit� des jugements en matiere criminelle et en matiere civile</i> , Paris, 1837
polar co-ordinates (Bernoulli, Jakob)	1691	Bernoulli, Jakob <i>Acta Eruditorum</i> 1692 , <u>11</u> , 207 Index of Biographies, University of St. Andrews, Mathematical Chronology http://www-groups.dcs.st-and.ac.uk/~history/BioIndex.html
Polya's theorem	1935	Polya, G. <i>Compt. Rend.</i> 1935 , <u>201</u> , 1167 Polya, G. <i>Z. Kristal.</i> 1936 , <u>93A</u> , 415 Polya, G. <i>Acta Math.</i> 1937 , <u>68</u> , 145
predicate logic (Gottlob, Frege)	1879	
principle of contradiction (Aristotle)	?	Ross, W.D. <i>The Works of Aristotle</i> , Oxford, 1928
principle of duality	?	
principle of excluded middle (Aristotle)	?	Ross, W.D. <i>The Works of Aristotle</i> , Oxford, 1928
principle of identity (Aristotle)	?	Ross, W.D. <i>The Works of Aristotle</i> , Oxford, 1928
principle of syllogisms (chain rule of inference) (de Morgan)	1858	De Morgan, A. <i>Trans. Cambr. Phil. Soc.</i> 1849 , <u>8</u> , 379 De Morgan, A. <i>Trans. Cambr. Phil. Soc.</i> 1856 , <u>9</u> , 79 De Morgan, A. <i>Trans. Cambr. Phil. Soc.</i> 1858 , <u>10</u> , 173; 331; 428
probability theory (de Morgan)	1838	De Morgan, <i>Trans. Cambr. Phil. Soc.</i> 1838 , <u>6</u> , 423
probability theory (Kolmogorov)	1933	Kolmogorov, A.N. <i>Giorn. Ist. Ital. Attuari</i> 1933 , <u>4</u> , 83 Kolmogorov, A.N. <i>Uch. Zap. Moskov. Gos. Univ.</i> 1933 , <u>1</u> , 9 Kolmogorov, A.N. <i>Zh. Geofiz.</i> 1933 , 78 Kolmogorov, A.N. <i>Grundbegriffe der Wahrscheinlichkeitsrechnung</i> , Springer: Berlin, 1933, Chapter 2.
probability theory (Laplace)	1812	Laplace, P.S. <i>Theorie Analytique des Probabilites</i> , 1812 Laplace, P.S. <i>Oeuvres</i> , 14 vol., Gauthier-Villars: Paris, 1878 – 1912 Index of Biographies, University of St. Andrews, Mathematical Chronology http://www-groups.dcs.st-and.ac.uk/~history/BioIndex.html
probit analysis (Bliss, Chester)	1935	Bliss, C.I. <i>Science</i> 1934 , <u>79</u> , 38; 409 Bliss, C.I. <i>Ann. Appl. Biol.</i> 1935 , <u>22</u> , 134; 307

		Bliss, C.I. <i>Quart. J. Pharmacy Pharmacol.</i> 1938 , <u>11</u> , 192 Bliss, C.I. <i>J. Am. Pharmaceut. Assoc.</i> 1940 , <u>29</u> , 465 Finney, D.J. <i>Probit Analysis</i> , 3 rd ed. Cambridge University Press: Cambridge, 1971
product symbol (Descartes)	1637	Descartes, R. <i>La Geometrie</i> , 1637
projective geometry (Ptolemy/Desargues)	1639	Desargues, G. <i>Oeuvres</i> , Leiber: Paris, 1864
proof by induction (de Morgan)	1838	Index of Biographies, University of St. Andrews, Mathematical Chronology http://www-groups.dcs.st-and.ac.uk/~history/BioIndex.html
proof by reductio ad absurdum (Euclid, Pythagoras)	?	Euclid, <i>Elementa</i> , 5 vol., (J.L. Heiberg, ed.), Teubner: Leipzig, 1883 – 1888 <i>Stoicheion (The Elements)</i>
proof of Bertrand's conjecture (Chebyshev)	1850	Tchebyshev, P. <i>On Primary Numbers</i> , 1850 Tchebychef, T. (A.A. Markov, N.Y. Sonin, eds.) <i>Oeuvres</i> , 2 vols., St. Petersburg, 1899 - 1907
proof of Fermat's conjecture (Gauss)	1801	Gauss, C.F. <i>Werke</i> , 12 vol., Göttingen, 1870 – 1927
proof of general ergodic theorem (Birkhoff)	1931	Birkhoff, G.D. <i>Proc. Natl. Acad. Sci. USA</i> 1931 , <u>17</u> , 650 Von Neumann, J. <i>Proc. Natl. Acad. Sci. USA</i> 1932 , <u>18</u> , 70
proof of Jordan theorem (Veblen)	1905	Veblen, O. <i>Trans. Am. Math. Soc.</i> 1904 , <u>5</u> , 343 Veblen, O. <i>Analysis situs</i> in Colloquium Publications of the American Mathematical Society, 1922 , <u>5</u> , part 2
proof of minimax theorem (Neumann)	1928	Von Neumann, J. <i>Math. Ann.</i> 1928 , <u>100</u> , 295 Von Neumann, J.; Morgenstern, O. <i>Theory of Games and Economic Behavior</i> , Princeton University Press: Princeton, NJ, 1944
proof that pi is irrational (Lambert)	1768	Index of Biographies, University of St. Andrews, Mathematical Chronology http://www-groups.dcs.st-and.ac.uk/~history/BioIndex.html
proof that polynomials of degree > 4 cannot be solved by radicals (Abel)	1824	Abel, N.H. <i>Oeuvres</i> , 2 vol., (Sylov; Lie, eds.), Christiania, 1881
Ptolemy's theorem	150	Index of Biographies, University of St. Andrews, Mathematical Chronology http://www-groups.dcs.st-and.ac.uk/~history/BioIndex.html
Pythagorean theorem (Babylonians)	-1850	Index of Biographies, University of St. Andrews, Mathematical Chronology http://www-groups.dcs.st-and.ac.uk/~history/BioIndex.html
Pythagorean triples	?	
Ramanujan sums	1917	Ramanujan, S.A. (G.H. Hardy, P.V.S. Aiyar, B.M. Wilson, eds.) <i>Collected Papers</i>

		<i>of S.A. Ramanujan</i> , Cambridge, 1927
remainder theorem (Bezout, Etienne)	1779	Bezout, E. <i>Theorie generale des equations algebriques</i> , Paris, 1779
Reynolds number	1883	Reynolds, O. <i>Phil. Trans.</i> 1883 , <u>174</u> , 935 Reynolds, O. <i>Phil. Trans.</i> 1886 , <u>177</u> , 157
rhombic dodecahedron (Hauy, Rene Just)	1784	Hauy, R. <i>Essai d'une theorie sur la structure des cristaux appliquee a plusieurs genres, de substances cristallines</i> , 1784
Riccati differential equation	1724	Riccati, J.F. <i>Opera del conte Jacopo Riccati</i> , 4 vols., Lucca, 1761 - 1765
Riemann definite integral	1854	Riemann, G.F.B. <i>Werke</i> , 1854 , 272
Riemann geometry	1854	Riemann, G.F.B. <i>Werke</i> , 1854 , 272
Riemann hypothesis	1859	Riemann, G.F.B. <i>Werke</i> , 1859 , 145
Riemann integrability condition	1854	Riemann, G.F.B. <i>Werke</i> , 1854 , 272
Riemann sums	1854	Riemann, G.F.B. <i>Werke</i> , 1854 , 272
Riemann surfaces	1851	Riemann, G.F.B. <i>Werke</i> , 1851 , 3
Riemann zeta function	1859	Riemann, G.F.B. <i>Werke</i> , 1859 , 145
Riesz means (Riesz, Marcel)	1909	Riesz, M. <i>Compt. Rend.</i> 1909 , <u>149</u> , 18; 909 Riesz, M. <i>Acta Szeged Sect. Math.</i> 1923 , <u>1</u> , 104
Riesz-Fischer theorem	1907	Riesz, F. <i>Nachrichten Göttingen</i> 1907 , 116 Fischer, E. <i>Compt. Rend.</i> 1907 , <u>CXLIV</u> , 1022
Rodrigues formula	1816	Rodrigues, B.O. <i>Corresp. Ecole Polytechnique</i> 1816 , <u>3</u> , 361
Rolle's theorem	1691	Rolle, M. <i>Traite d'algebre, ou principes generaux pour rensoudre les questions de mathematiques</i> , Paris, 1690
rules of differentiation (Leibniz)	1677	Index of Biographies, University of St. Andrews, Mathematical Chronology http://www-groups.dcs.st-and.ac.uk/~history/BioIndex.html
Runge-Kutta method	1901	Runge, C. <i>Math. Ann.</i> 1895 , <u>46</u> , 167 Runge, C. <i>Nachr. Ges. Wiss. Gottingen, Math.-Phys. Klasse</i> , 1905 , 252 Kutta, W. <i>Z. Math. Phys.</i> 1901 , <u>46</u> , 435
Russell's paradox	1901	Russell, B. <i>Introduction to Mathematical Philosophy</i> , 1919 Index of Biographies, University of St. Andrews, Mathematical Chronology http://www-groups.dcs.st-and.ac.uk/~history/BioIndex.html
Sarrus's rule for 3rd-order determinants	?	
series expansion of $\log(1 + x)$ (Mercator, N.)	1651	Mercator, N. <i>Trigonometrica sphaericorum logarithmica, cosmographia</i> , 1651 Mercator, N. <i>Astronomica sphaerica</i> , 1651 Mercator, N. <i>Logarithmotechnia cui nunc accedit vera quadratura hyperbolae</i> ,

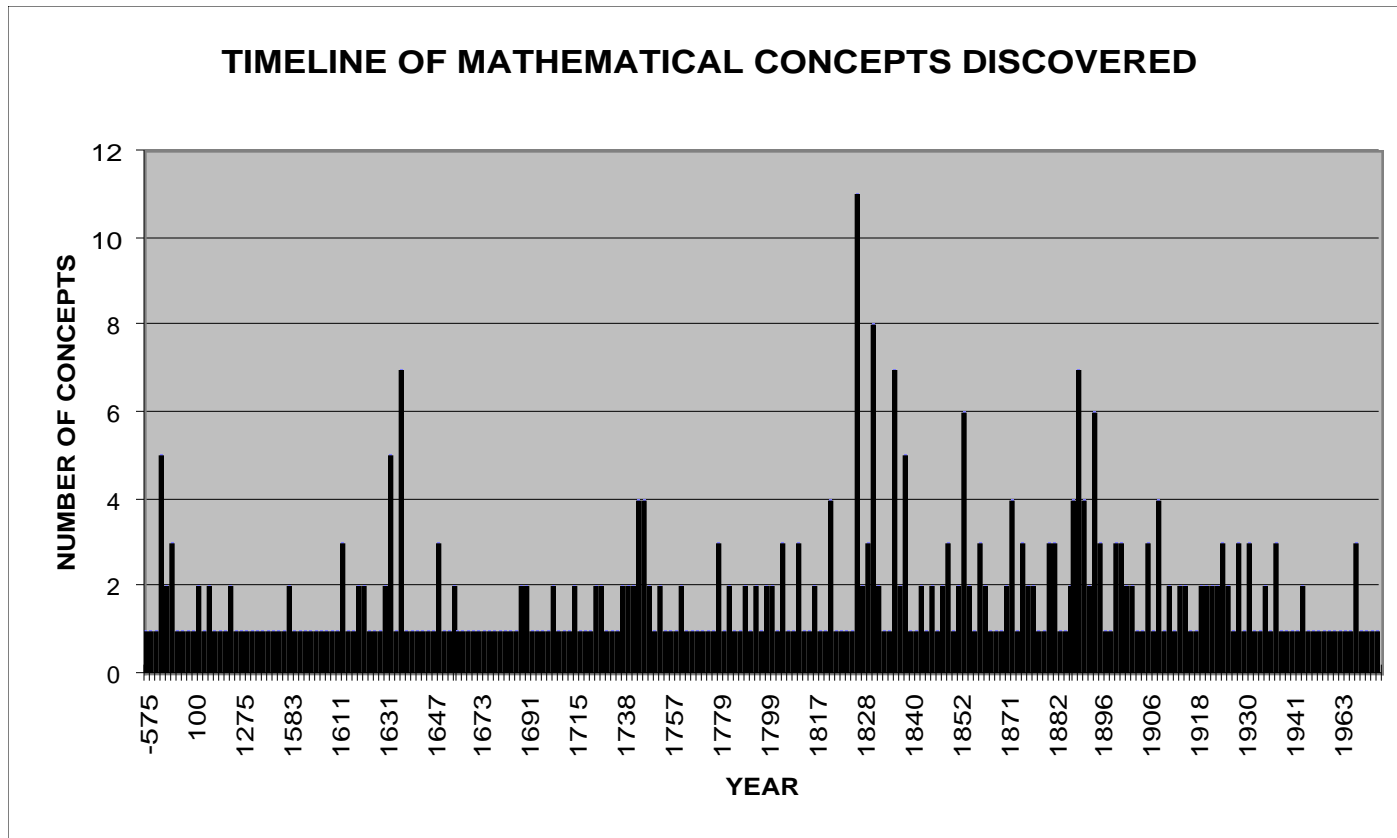
		London, 1668 Index of Biographies, University of St. Andrews, Mathematical Chronology http://www-groups.dcs.st-and.ac.uk/~history/BioIndex.html
series expansion of $\pi/4$ (Gregory, J.)	1671	Index of Biographies, University of St. Andrews, Mathematical Chronology http://www-groups.dcs.st-and.ac.uk/~history/BioIndex.html Whiteside, D.T. in <i>Dictionary of Scientific Biography</i> , Gillispie, Charles Coulston (ed.), Charles Scribners & Sons: New York, 1980, Vol. 5, pp. 524 - 530
set symbol (Peono)	1889	Peono, G. <i>Arithmeticas principia, novo methodo exposita</i> , Torino, 1889
seven axioms of Zermelo	1908	Zermelo, E. <i>Math. Ann.</i> 1908 , <u>65</u> , 107; 261
Shannon-Jaynes maximum entropy function	1957	Shannon, C.E. <i>Bell System Tech. J.</i> 1948 , <u>27</u> , 379; 623 Shannon, C.E.; Weaver, W. <i>The Mathematical Theory of Communication</i> , University of Illinois Press: Urbana, 1949. Jaynes, E.T. <i>Phys. Rev.</i> 1957 , <u>106</u> , 620 Jaynes, E.T. <i>Phys. Rev.</i> 1957 , <u>108</u> , 171
Sierpinski carpet	?	
Sierpinski sponge	?	
Sierpinski triangle	?	
simplex method of optimization (Dantzig, G.)	1951	Dantzig, G. <i>Maximization of a linear function of variables subject to linear inequalities</i> , in Activity Analysis of Production and Allocation, Cowles Commission Monograph No. 13, Wiley: NY, 1951, pp. 339 – 347 Dantzig, G. <i>Application of the simplex method to a transportation problem</i> , in Activity Analysis of Production and Allocation, Cowles Commission Monograph No. 13, Wiley: NY, 1951, pp. 359 – 373 Dantzig, G. <i>IBM J. Res. Develop.</i> 1960 , <u>4</u> , 505
Simpson's rule	1750	
sin, cos, tan names (Girard)	1626	Index of Biographies, University of St. Andrews, Mathematical Chronology http://www-groups.dcs.st-and.ac.uk/~history/BioIndex.html
Skew distributions (Pearson, K.)	1895	Pearson, K. <i>Phil. Trans. Roy. Soc. A</i> 1895 , <u>186A</u> , 343 Pearson, K. <i>Biometrika</i> 1921 , <u>13</u> , 296 Pearson, K. <i>Biometrika</i> 1923 , <u>15</u> , 222; 231
slide rule (Oughtred, William; Gunter, Edmund)	1621	Index of Biographies, University of St. Andrews, Mathematical Chronology http://www-groups.dcs.st-and.ac.uk/~history/BioIndex.html
solid geometry (Archimedes)	-250	<i>Archimedis Opera Omnia</i> , 3 vol., (J.L. Heiberg, ed.), Teubner: Leipzig, 1913 – 5

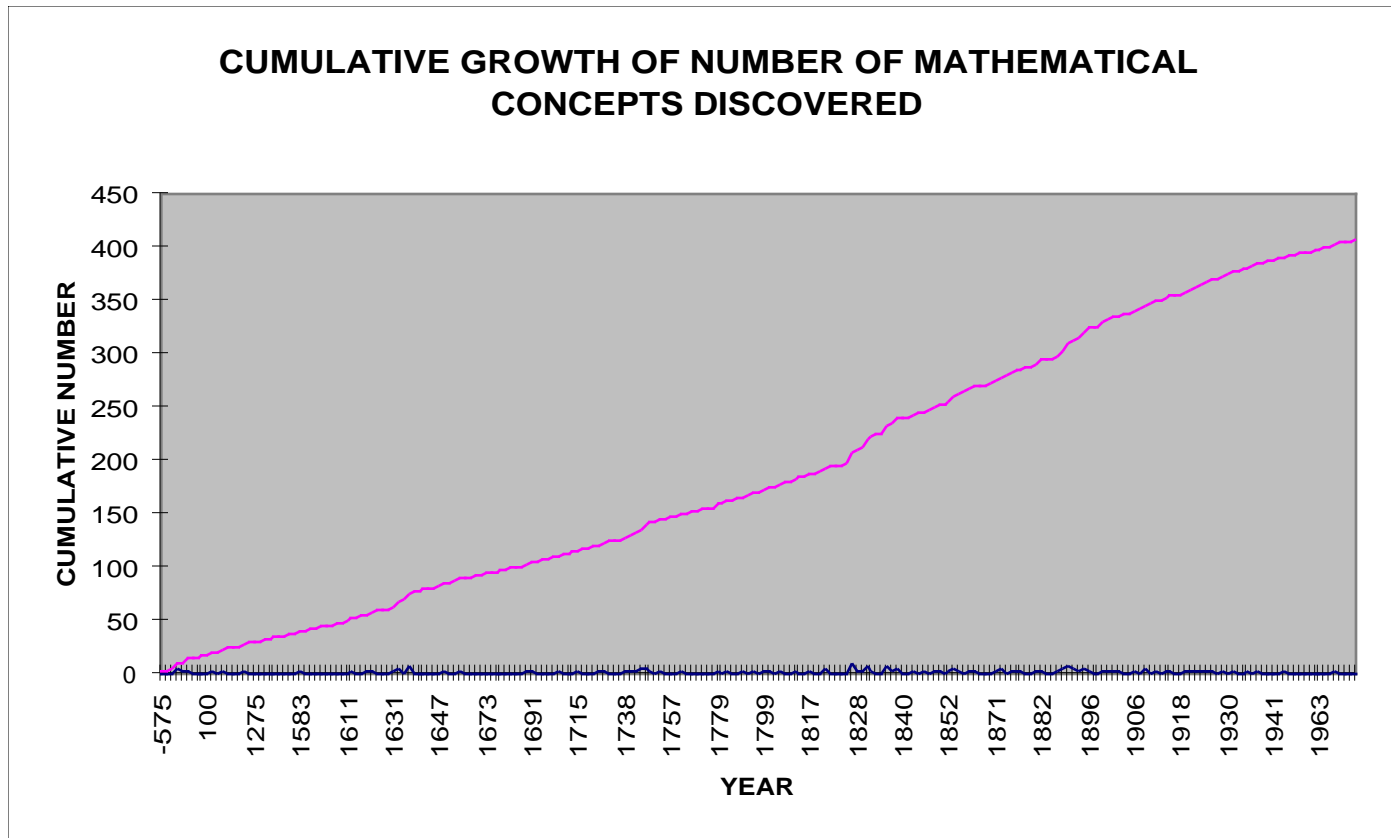
		<i>Les Oeuvres completes d'Archimede</i> , transl. P. Ver Ecke, Paris, 1921
stability criteria for sets ode's (Lyapunov)	1899	Lyapunov, A.M. <i>The General Problem of the Stability of Motion</i> , Ph.D. thesis, St. Petersburg, 1899; <i>Annales de la Faculte des sciences de l'Universitie de Toulouse</i> , 2 nd ser. 1907 , <u>9</u> , 203; <i>Annals of Mathematics No. 17</i> , Princeton, 1947
standard deviation (Pearson, Karl)	1894	Pearson, K. <i>Phil. Trans. Roy. Soc. A</i> 1894 , 185, 71
Stieltjes integral	?	
Stirling's formula (de Moivre)	1730	De Moivre, A. <i>Miscellanea Analytica</i> , London, 1730
student t-test (Gosset)	1908	"Student" <i>Biometrika</i> 1908 - 1909 , <u>6</u> , 1; 302 Fisher, R.A. <i>Biometrika</i> 1914 - 1915 , 10, 507
Sturm-Liouville theory	1837	Liouville, J. <i>Journ. De Math.</i> 1836 , <u>1</u> , 253; 269 Liouville, J. <i>Journ. De Math.</i> 1837 , <u>2</u> , 16; 418 Sturm, C. <i>Journ. De Math.</i> 1836 , 1, 106; 373
summation symbol (Euler)	?	Euler, L. <i>Opera Omnia</i> , 46 vol., Teubner and O. Fussli: Leipzig, 1911 - 1957
supply and demand functions (Cournot)	1838	Cournot, A. <i>Recherches sur les principes mathematiques de la theorie des richesses</i> , Paris, 1838 Index of Biographies, University of St. Andrews, Mathematical Chronology http://www-groups.dcs.st-and.ac.uk/~history/BioIndex.html
surfaces and volumes of solids of revolution (Pappus)	340	Index of Biographies, University of St. Andrews, Mathematical Chronology http://www-groups.dcs.st-and.ac.uk/~history/BioIndex.html
Sylow theorems	1872	Sylow, L.. <i>Math. Ann.</i> 1872 , <u>5</u> , 584
Sylvester's theorem	1877	Sylvester, J.J. (H.F. Baker, ed.) <i>Collected Mathematical Papers, Vol. 1 - 4</i> , Cambridge, 1904 - 1912
symbol dy/dx for derivatives (Lagrange)	1797	Lagrange, J.L.. <i>Oeuvres</i> , 14 vol., Gauthier-Villars: Paris, 1867 - 1892
symbol e for natural log base (Euler)	1727	Euler, L. <i>Opera Omnia</i> , 46 vol., Teubner and O. Fussli: Leipzig, 1911 - 1957 Euler, L. <i>Mediation upon Experiments made recently on firing of Cannon</i> , 1727 Index of Biographies, University of St. Andrews, Mathematical Chronology http://www-groups.dcs.st-and.ac.uk/~history/BioIndex.html
symbol for addition and subtraction (Widman)	1489	Index of Biographies, University of St. Andrews, Mathematical Chronology http://www-groups.dcs.st-and.ac.uk/~history/BioIndex.html
symbol for division (Rahn, Johann H.)	1659	Index of Biographies, University of St. Andrews, Mathematical Chronology http://www-groups.dcs.st-and.ac.uk/~history/BioIndex.html
symbol for equals sign (Recordes)	1557	<i>The Whetstone of Witte</i> Index of Biographies, University of St. Andrews, Mathematical Chronology

		http://www-groups.dcs.st-and.ac.uk/~history/BioIndex.html
symbol for multiplication (Oughtred, William)	1631	Oughtred, W. <i>Clavis Mathematicae</i> , 1631 Index of Biographies, University of St. Andrews, Mathematical Chronology http://www-groups.dcs.st-and.ac.uk/~history/BioIndex.html
symbol for square root (Rudolff)	1525	Index of Biographies, University of St. Andrews, Mathematical Chronology http://www-groups.dcs.st-and.ac.uk/~history/BioIndex.html
symbol i for imaginary numbers (Euler)	1794	Euler, L. <i>Opera Omnia</i> , 46 vol., Teubner and O. Fussli: Leipzig, 1911 – 1957 Index of Biographies, University of St. Andrews, Mathematical Chronology http://www-groups.dcs.st-and.ac.uk/~history/BioIndex.html
tan, cot, sec, csc names (Fincke, Thomas)	1583	
Taylor series	1715	Taylor, B. <i>Methodus Incrementorum directa et inversa</i> , London, 1715
Taylor theorem	1715	Taylor, B. <i>Methodus Incrementorum directa et inversa</i> , London, 1715
Thales's theorem	-575	Index of Biographies, University of St. Andrews, Mathematical Chronology http://www-groups.dcs.st-and.ac.uk/~history/BioIndex.html
Theorems of Apollonius	-225	<i>Conics</i> Index of Biographies, University of St. Andrews, Mathematical Chronology http://www-groups.dcs.st-and.ac.uk/~history/BioIndex.html
Theorems of Pappus (Guldin's rules)	340	Index of Biographies, University of St. Andrews, Mathematical Chronology http://www-groups.dcs.st-and.ac.uk/~history/BioIndex.html
theory of algebraic invariants (Sylvester, Cayley)	1852	Sylvester, J.J. <i>Collected Mathematical Papers, Vol. 1 – 4</i> , Cambridge, 1904 - 1911 Cayley, A. <i>J. Rein. Angew. Math.</i> 1846 , <u>30</u> , 1 Sylvester, J.J. <i>Am. J. Math.</i> 1878 , <u>1</u> , 64
theory of fractals (Mandelbrot)	1975	Mandelbrot, B. <i>Les objets fractals, forme, hasard, et dimension</i> , 1975
topological invariants (Brouwer)	1911	Brouwer, L.E.J. <i>Math. Ann.</i> 1911 , <u>70</u> , 161 Brouwer, L.E.J. <i>Math. Ann.</i> 1912 , <u>71</u> , 305 Brouwer, L.E.J. <i>Math. Ann.</i> 1912 , <u>72</u> , 55; 422 Brouwer, L.E.J. <i>J. reine angew. Math.</i> 1913 , <u>142</u> , 146
trapezoidal rule	?	
trigonometric solution to cubic equation (Viète)	1600	
trigonometry (Euler, L.)	1748	Euler, L. <i>Opera Omnia</i> , 46 vol., Teubner and O. Fussli: Leipzig, 1911 - 1957

trigonometry (Hipparchus of Nicea & Rhodes)	-140	
trigonometry name (Pitiscus, Bartholomaeus)	1595	Pitiscus, B. <i>Trigonometrica: sive de solutione triangulorum tractatus brevis et perspicuus</i> , Heidelberg, 1595
Tukey-Cooley algorithm	1965	Cooley, J.W.; Tukey, J.W. <i>Math. Comput.</i> 1965 , <u>19</u> , 297
Turing machine	1936	Turing, A. <i>Proc. London Math. Soc. Ser. 2</i> 1936 , <u>42</u> , 230
Turing theory	1936	Turing, A. <i>Proc. London Math. Soc. Ser. 2</i> 1936 , <u>42</u> , 230
Tutte polynomial	1953	Tutte, W.T. <i>Can. J. Math.</i> 1953 , <u>6</u> , 80
Vandermonde determinant	1771	Vandermonde, A.T. <i>Hist. Acad. Roy. Sci.</i> 1771 "Memoire sur la resolution des equations"
Venn diagram	1881	Venn, J. <i>Symbolic Logic</i> , London-Cambridge, 1881
Viète infinite formula for pi	1593	Viète, F. <i>Opera</i> 1593 , 347 "Variorum de rebus mathematicis responsorum libri octo"
Vinogradov's theorem	1937	Index of Biographies, University of St. Andrews, Mathematical Chronology http://www-groups.dcs.st-and.ac.uk/~history/BioIndex.html Vinogradov, B. <i>Proc. Amer. Math. Soc.</i> 1950 , <u>1</u> , 159
Volterra's integral equation	1896	Volterra, V. <i>Rend. Accad. Lincei</i> 1896 , <u>5</u> , 177; 289 Volterra, V. <i>Ann. Di Mat.</i> 1897 , <u>25</u> , 139 Volterra, V. (M. Tomassetti; F.S. Zarlatti, eds.) <i>Lecons sur les equations integrale et les equations integro-differentielles</i> , Paris, 1913 Volterra, V. (L. Fantapie, ed.) <i>Theory of Functionals and of Integral and Integro-Differential Equations</i> , London-Glasgow, 1930
Wallis formula	1655	Wallis, J. <i>Arithmetica infinitorum</i> , 1656 Wallis, J. <i>Opera</i> 1655 , <u>1</u> , 355 Index of Biographies, University of St. Andrews, Mathematical Chronology http://www-groups.dcs.st-and.ac.uk/~history/BioIndex.html
Weibull distribution	1939	Weibull, W. <i>Ing. Vetenskaps Akad. Handl.</i> 1939 , <u>151</u> , 1 Weibull, W. <i>J. Appl. Mech.</i> 1951 , <u>18</u> , 293
Weierstrass approximation theorem	1890	Weierstrass, K. <i>Mathematische Werke</i> , 7 vol., Mayer und Mueller: Berlin, 1894 - 1927
Weierstrass inequalities	1890	Weierstrass, K. <i>Mathematische Werke</i> , 7 vol., Mayer und Mueller: Berlin, 1894 - 1927
Weierstrass test for convergence	1890	Weierstrass, K. <i>Mathematische Werke</i> , 7 vol., Mayer und Mueller: Berlin, 1894 -

		1927
Wenzelides magic square	?	
Wiener integrals	1923	Wiener, N. <i>J. Math. Phys. MIT</i> 1923 , <u>2</u> , 131
Wiles theorem	1995	Wiles, A. <i>Ann. Math.</i> 1995 , 141[2], 443
witch of Agnesi	1748	Agnesi, M.G. <i>Instituzioni analitiche ad uso della giovent italiana</i> , 1748 Index of Biographies, University of St. Andrews, Mathematical Chronology http://www-groups.dcs.st-and.ac.uk/~history/BioIndex.html
Wronskian	1850	Hoene-Wronski, J. <i>Introduction a la philosophie des mathematiques</i> Hoene-Wronski, J. <i>Resolution generale des equations de tous les degres</i> , 1812 Dobrzycki, J. in <i>Dictionary of Scientific Biography</i> , Gillispie, Charles Coulston (ed.), Charles Scribners & Sons: New York, 1980, Supplement, p. 225 - 6
x, y, z notation for variables (Descartes)	1637	Descartes, R. <i>La Geometrie</i> , 1637 Index of Biographies, University of St. Andrews, Mathematical Chronology http://www-groups.dcs.st-and.ac.uk/~history/BioIndex.html
Zeno's paradox	-450	Index of Biographies, University of St. Andrews, Mathematical Chronology http://www-groups.dcs.st-and.ac.uk/~history/BioIndex.html
Zorn's lemma	1934	Zorn, M. <i>Bull. Am. Math. Soc.</i> 1935 , 61, 667

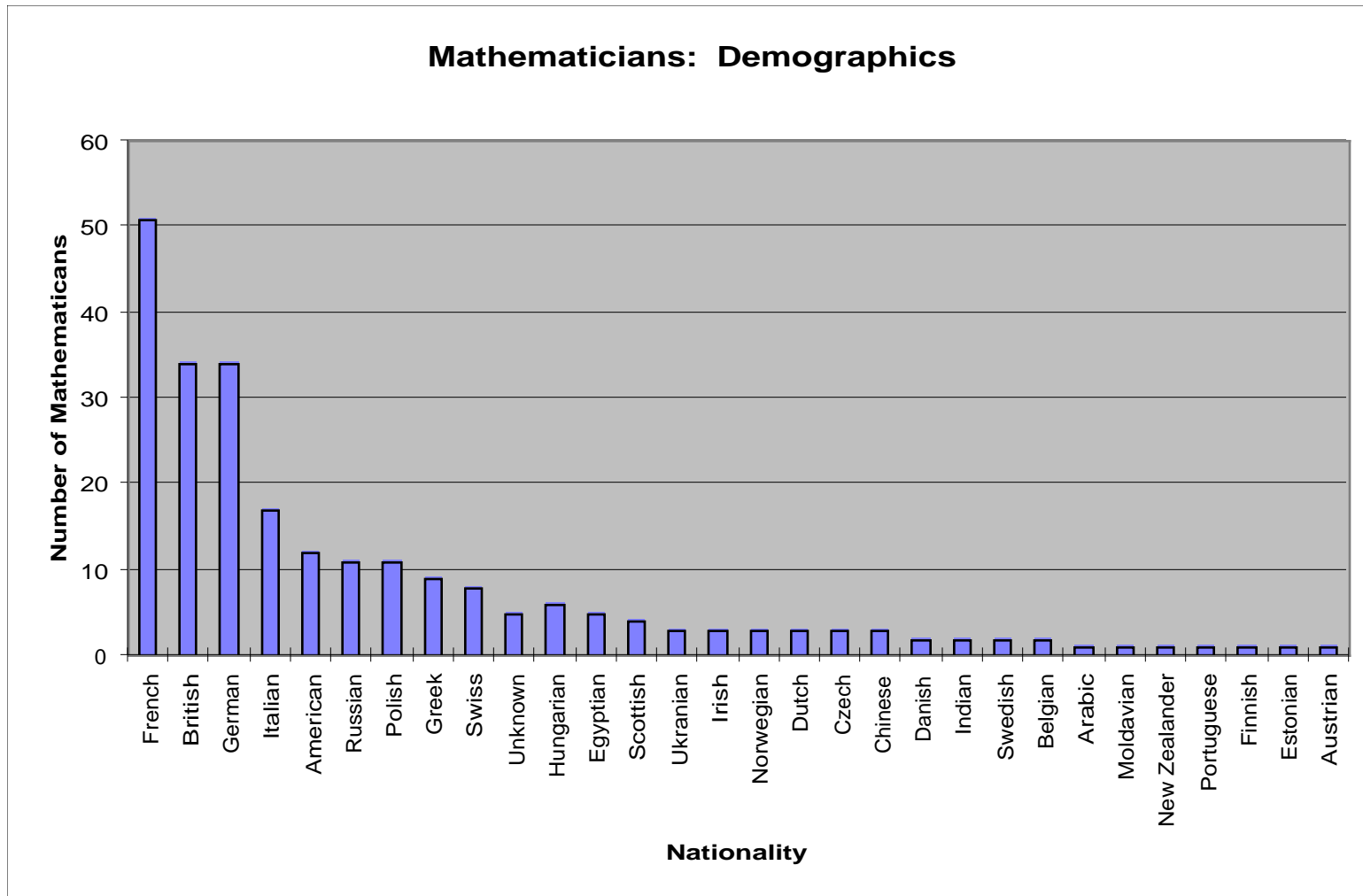




Demographics of Named Mathematicians

Nationality	Number of Mathematicians
French	51
British	35
German	34
Italian	17
American	12
Russian	11
Polish	11
Greek	9
Swiss	8
Unknown	5
Hungarian	6
Egyptian	5
Scottish	4
Ukrainian	3
Irish	3
Norwegian	3
Dutch	3
Czech	3
Chinese	3
Belgian	3
Danish	3
Indian	2
Swedish	2
Arabic	1
Moldavian	1
New Zealander	1
Portuguese	1

Finnish	1
Estonian	1
Austrian	1
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Genealogies of Mathematicians

NAME	YEARS	BIRTHPLACE	DEGREE	LOCATION	MENTOR/ADVISOR
Abel, Niels Hendrik	05.08.1802 - 06.04.1829	Finnoy, Norway	1822	CATHEDRAL SCHOOL CHRISTIANIA; BERLIN	Holmboe, Bernt M.; Crelle, August L.
Agnesi, Maria Gaetana	16.05.1718 - 01.01.1799	Milan, Italy	n/a	no degree	Rampinelli, Ramiro (monk); Riccati, V.
Airy, Sir George Biddell	27.07.1801 - 04.01.1892	Alnwick, England	1823	CAMBRIDGE	?
al-Khwarizmi, Ja'far	c780 - c850	Baghdad, Iraq	no degree	no degree	?
Alexander, James Waddell II	19.09.1888 - 23.09.1971	Sea Bright, NJ, USA	1915	PRINCETON (PHD)	Gronwall, T.H.
Alexandrov, Pavel Sergeevitch	07.03.1896 - 16.11.1982	Bogorodsk, Russia	1913+	MOSCOW; GOETTINGEN; BONN; BLARICUM	Luzin, N.N.; Noether, E.; Hausdorff, F.; Brouwer, L.
Apollonius of Pergia	250 BC - 220 BC	?	no degree	no degree	?
Arbogast, Louis	04.10.1759 - 18.04.1803	Mutzig, France	1794	ECOLE CENTRALE (prof.)	?
Archimedes	287 BC - 212 BC	Syracuse, Greece	no degree	no degree	?
Argand, Jean Robert	18.07.1768 - 13.08.1822	Geneva, Switzerland	no degree	no degree	Legendre, A.M.
Aristotles	384 BC - 322 BC	Stagirus, Macedonia, Greece	?	Plato's Academy, Athens	?
<i>Artin, Emil</i>	03.03.1898 - 20.12.1962	Vienna, Austria	1921	LEIPZIG	Herglotz, Gustav; Hölder, Otto
Banach, Stefan	30.03.1892 - 31.08.1945	Cracow, Poland	1920+	JAN KAZIMIERZ, LVOV	Steinhaus, Hugo

Bateman, Harry	29.05.1882 - 21.01.1946	Manchester, England	1913	JOHNS HOPKINS	Morley, Frank
Bayes, Thomas	1701 - 17.04.1761	London, England	no degree	no degree	de Moivre, Abraham
Bernoulli, Daniel	29.01.1700 - 17.03.1782	Groningen, Netherlands	1721	BASEL	Bernoulli, Johann I; Bernoulli, Nikolaus II
Bernoulli, Jakob	27.12.1654 - 16.08.1705	Basel, Switzerland	1676	BASEL (Lic. Theol.)	Hudde, Johann van Waveren; Hooke, R.; Boyle, R.
Bernstein, Sergi N.	05.03.1880 - 26.10.1968	Odessa, Ukraine	1904, 1913	SORBONNE; KHARKOV	Picard, E.
Besicovitch, Abram	24.01.1891 - 02.11.1970	Berdiansk, Russia	1912	ST. PETERSBURG	Markov, A.
Bessel, Friedrich Wilhelm	22.07.1784 - 17.03.1846	Minden, Germany	1810	GOETTINGEN	Gauss, C.
Betti, Enrico	21.10.1823 - 11.08.1892	Pistoia, Tuscany	1846	PISA	Ottaviano F. Mossotti
Bezout, Etienne	31.03.1730 - 27.09.1783	Nemours, France	no degree	no degree	Euler, Leonhard
Bieberbach, Ludwig	04.12.1886 - 01.09.1982	Goddelan, Germany	1910	GOETTINGEN	Klein, F.; Koebe, P.
Binet, Jacques Phillippe Marie	02.02.1786 - 12.05.1856	France	1806	ECOLE POLYTECHNIQUE	?
Birkhoff, George David	21.03.1884 - 12.11.1944	Overisel, Michigan, USA	1907	CHICAGO (PHD)	Moore, E.H.
Bliss, Chester Ittner	01.02.1899 - 1979	Springfield, Ohio, USA	1926	COLUMBIA	Morgan, Thomas Hunt (Physiology & Medicine Nobel 1933)
Bohr, Harald A.	22.04.1887 - 22.01.1951	Copenhagen, Denmark	1910	COPENHAGEN	Landau, Edmund
Boole, George	02.11.1815 - 12.08.1864	Lincoln, England	no degree	no degree	Newton, I.; Lagrange, J.
Borel, Felix E.J. Emile	07.01.1871 - 03.02.1956	Saint-Affrique, France	1895	ECOLE NORMALE (PHD)	Darboux, Jean- Gaston

Bouguer, Pierre	16.02.1698 - 15.08.1758	Le Croisic, France	1735	Academie Roy. Sciences (no degree)	
Box, George E.P.	18.10.1919 -	Gravesend, England	1952	UC LONDON	Pearson, E.P.; Hartley, Herrmann
Brahmagupta	598 - 670	Ujjain (?), India	no degree	no degree	?
Brianchon, Charles Julien	19.12.1783 - 29.04.1864	Sevres, France	1808	ECOLE POLYTECHNIQUE	Monge, Gaston
Briggs, Henry	02.1561 - 26.01.1630	Warley Wood, Halifax, England	1581	CAMBRIDGE	Napier, John
Brouwer, Luitzen Egbertus Jan	27.02.1881 - 02.12.1966	Overschie, Netherlands	1907	AMSTERDAM (PHD)	Korteweg, Diedrik J.
Buffon, George Louis Leclerc Comte de	07.09.1707 - 16.04.1788	Montbard, France	no degree	no degree	?
Cantelli, Francesco Paolo	20.12.1875 - 21.07.1966	Palermo, Italy	1930?	PALERMO	?
Cantor, Georg Ferdinand L.P.	03.03.1845 - 06.01.1918	St. Petersburg, Russia	1867	GOETTINGEN (PHD)	Dedekind, J.
Cardano, Girolamo	24.09.1501 - 21.09.1576	Pavia, Italy	1525	PADUA (MD)	?
<i>Cartan, Elie Joseph</i>	09.04.1869 - 06.05.1951	Dolomieu, France	1890+	ECOLE NORMALE	Poincare, H.
Cassini, Giovanni P.	08.06.1625 - 14.09.1712	Perinaldo, Italy	no degree	no degree	Malvasia, Marquis Cornelio
Cataldi, Pietro A.	15.04.1548 - 11.02.1626	Bologna, Italy	no degree	no degree	?
Cauchy, Augustin- Louis	21.08.1789 - 23.05.1857	Paris, France	1810	ECOLE PONTS & CHAUSSEES	Laplace, P.; Lagrange, J.
Cavalieri, Francesco Bonaventura	1598 - 03.12.1647	Milan, Italy	1916	JESUATI MONASTERY PISA	Castelli, Benedetto
Cayley, Arthur	16.08.1821 - 26.01.1895	Richmond-on- Thames, England	1885	CAMBRIDGE	Hopkins, William
Ceva, Giovanni	07.12.1647 - 15.06.1734	Milan, Italy	1686	PISA (prof.)	?

Chebyshev, Pafnuty Lvovich	14.05.1821 - 26.11.1894	Borovsk, Russia	1847	ST. PETERSBURG (PHD); BERLIN; LONDON; PARIS	Dirichlet, G.; Cayley, A.; Sylvester, J.; Liouville, J.
Chhi-shou, Pao	?	?	?	?	?
Chiu-Shao, Ch'in	1202 - 1261	Sichuan, China	no degree	no degree	?
Clifford, William Kingdon	04.05.1845 - 03.03.1879	Exeter, England	1867	CAMBRIDGE	Lobachevsky, N.I.; Riemann, G.
Cooley, James William	18.09.1926 -	New York City, NY, USA	1961	COLUMBIA	?
<i>Courant, Richard</i>	17.02.1887 - 27.01.1972	Lublinitz, Upper Silesia	1912+	GOETTINGEN (PHD)	Hilbert, David
Cournot, Antoine	28.08.1801 - 31.03.1877	Gray, France	1829	SORBONNE	Lacroix, S.F.; Hachette, J.; Poisson, S.
Cox, Sir David Roxbee	15.07.1924 -	Birmingham, England	1949	LEEDS	Daniels, Henry; Welch, Bernard
Coxeter, Harold S.M.	09.02.1907 – 31.03.2003	London, England	1931	CAMBRIDGE PRINCETON	Baker, Henry F. Veblen, O.
Cramer, Gabriel	31.07.1704 - 04.01.1752	Geneva, Switzerland	1722	GENEVA; BASEL	Bernoulli's; Euler, L.
D'Alembert, Jean-le-Rond	17.11.1717 - 29.10.1783	Paris, France	1735	COLL. QUATRE NATIONS (BA)	?
Dantzig, George	08.11.1914 -	Portland, Oregon, USA	1946	UC BERKELEY	Neyman, Jerzy
de Moivre, Abraham	26.05.1667 - 27.11.1754	Vitry-le-Francois, France	1684+	PARIS	Ozanam, Jacques
de Morgan, Augustus	27.06.1806 - 18.03.1871	Madura, India	1826	CAMBRIDGE (BA)	Peacock, George; Whewell, William
Dedekind, Julius Wilhelm Richard	05.10.1831 - 12.02.1916	Brunswick, Germany	1852	GOETTINGEN (PHD)	Gauss, Carl
Denjoy, Arnaud	05.01.1884 - 21.01.1974	Auch, France	1909	ECOLE NORMALE	Borel, E.; Picard, E.
Desargues, Girard	02.03.1591 -	Lyons, France	1630s	LYONS; PARIS	Mersennes, Marin

	10.1661				
Descartes, René	31.03.1596 - 11.02.1650	la-Haye-Descartes, France	no degree	no degree	?
Diophantus of Alexandria	250 fl.	Alexandria, Egypt	no degree	no degree	?
Dirichlet, Gustav Peter	13.02.1805 - 05.05.1859	Duren, Germany	1825	BRESLAU (P.DOZ.)	Gauss, Carl
Eratosthenes	276 BC - 194 BC	Cyrene, Greece	no degree	no degree	?
Euclid	300 BC	?	no degree	no degree	?
Euler, Leonhard	15.04.1707 - 18.09.1783	Basel, Switzerland	1724	BASEL (MA)	Bernoulli, Johann
Faulhaber, Johann	05.05.1580 - 1635	Ulm, Germany	n/a	no degree (weaver)	Kepler, J. (collaborator)
Feisthamel	?	?	no degree	no degree	?
Fejer, Lipot	09.02.1880 - 15.10.1959	Pecs, Hungary	1902	EOTVOS UNIV. BUDAPEST	Schwarz, Hermann
Fermat, Pierre de	17.08.1601 - 12.01.1665	Beaumont de Lomagne, France	1631	ORLEANS (civil law)	Pascal, B.; Viète, Francois
Ferrari, Lodovico	02.02.1522 - 05.10.1565	Bologna, Italy	no degree	no degree	Cardano, Girolamo
Fibonacci, Leonardo Pisano	1170 - 1250	Pisa, Italy	no degree	no degree	?
Fincke, Thomas	06.01.1561 - 24.04.1656	Fleusburg, Germany	1587?	BASEL (MD)	?
Fischer, Ernst S.	12.07.1875 - 14.11.1954	Vienna, Austria	1899	VIENNA; ZURICH; GOETTINGEN	Mertens, Franz; Gegenbauer, Leopold; Minkowski, H.
Fisher, Sir Ronald A.	17.02.1890 - 29.07.1962	London, England	1912 1926 (D.Sc.)	CAMBRIDGE (astronomy)	Sir James Jeans; Stratton, F.
FitzGerald, George F.	03.08.1851 - 22.02.1901	Dublin, Ireland	1877	TRINITY COLL. DUBLIN	Maxwell, J.C. (influence)
Fourier, Jean-	21.03.1768 -	Auxerre, France	1790s	ECOLE NORMALE	Laplace, P.;

Baptiste Joseph	16.05.1830					Lagrange, J.; Monge, G.
Franklin, Benjamin	17.01.1706 - 17.04.1790	Boston, Mass., USA	no degree	self-educated		?
Frege, Friedrich Ludwig Gottlob	08.11.1848 - 26.07.1925	Wismar, Germany	1873	GOETTINGEN		Abbe, Ernst (Jena)
Galois, Evariste	25.10.1811 - 1832	Bourg-la-Reine, France	1830+	ECOLE NORMALE		Richard, Louis Paul Emile
Galton, Sir Francis	16.02.1822 - 17.01.1911	Sparkbrook, England	no degree	no degree		?
Gauss, Carl Friedrich	30.04.1777 - 23.02.1855	Brunswick, Germany	1799 1804	HELMSTEDT; GOETTINGEN (PHD)		Pfaff, Johann
Gelfond, Aleksandr O.	24.10.1906 - 07.11.1968	St. Petersburg, Russia	1935	MOSCOW STATE		Khinchin, Aleksandr; Stepanov, Vyacheslaw
Germain, Marie- Sophie	01.04.1776 - 27.06.1831	Paris, France	1794+ 1830 (PHD)	ECOLE POLYTECHNIQUE; GOETTINGEN		Gauss, Carl
Gibbs, Josiah Willard	11.02.1839 - 28.04.1903	New Haven, Connecticut, USA	1863	YALE; BERLIN		Helmholtz, Hermann
Girard, Albert	1595 - 08.12.1632	St. Mihiel, France	1617+	LEIDEN		?
Goedel, Kurt	28.04.1906 - 14.01.1976	Bruenn (Brno), Czech Rep.	1929	VIENNA		Hahn, Hans
Goldbach, Christian	18.03.1690 - 20.11.1764	Koenigsberg, Prussia	1700s	KOENIGSBERG		Leibniz (Leipzig); Bernoulli, N. I, de Moivre (London); Bernoulli, N. II (Venice)
Gompertz, Benjamin	05.03.1779 - 14.07.1865	London, England	no degree	no degree		?
Gosset, William S. (known as "Student")	13.06.1876 - 16.10.1937	Canterbury, England	1899	OXFORD		Airy, Sir George B.

in publications)					
Gram, Jørgen Pederson	27.06.1850 - 29.04.1916	Nustrup, Denmark	1871	COPENHAGEN	?
Grassmann, Hermann Guenther	15.04.1809 - 26.09.1877	Stettin (Szczecin), Prussia	1830	BERLIN	?
Green, George	14.07.1793- 31.05.1841	Sneiton, England	1833+	CAMBRIDGE	?
Gregory (Gregorie), James	? .11.1638 - ?.10.1675	Drumoak, Scotland	1661+	ABERDEEN	?
Guldin, Habakkuk (Paul)	12.06.1577 - 03.11.1643	Sankt Gallen, Switzerland	1609	JESUIT COLLEGE, ROME	Clavius, Christopher
Gunter, Edmond	1581 - 10.12.1626	Hertfordshire, England	1603	OXFORD	Briggs, Henry (friend)
Guthrie, Francis	1831 - 1899		? no degree	no degree	?
Haar, Alfred	11.10.1885 - 16.03.1933	Budapest, Hungary	1909	GOETTINGEN	Hilbert, David
<i>Hachette, Jean-Nicolas P.</i>	06.05.1769 - 16.01.1834	Mezieres, France	1780s	ECOLE ROY. GENIE, MEZIERES	Monge, G.
Hadamard, Jacques-Salomon	08.12.1865 - 17.10.1963	Versailles, France	1890s	PARIS	Hermite, C.
Hajek, Jaroslav	04.02.1926 – 10.06.1974	Podebrady, Bohemia, Czech Republic	1954	CZECH. ACAD. SCI.	?
Hamilton, Sir William Rowan	04.08.1805 - 02.09.1865	Dublin, Ireland	1824+	CAMBRIDGE	?
Hankel, Hermann	14.02.1839 - 29.08.1873	Halle, Germany	1862	BERLIN	Weierstrass, K.; Kronecker, L.
Hardy, Godfrey Harold	07.02.1877 - 01.12.1947	Cranleigh, Surrey, England	1901	CAMBRIDGE	Jordan, C.
Hausdorff, Felix	08.11.1868 - 26.01.1942	Breslau, Prussia	1891	LEIPZIG (PHD)	Bruns, Heinrich; Mayer, Adolph
Hauy, Rene Just	28.02.1743 - 03.06.1822	St. Just, Picardy, France	?	NAVARRRE COLL., PARIS	?
Heaviside, Oliver	18.05.1850 -	Camden Town,	no degree	no degree	?

	03.02.1925	London, England			
Heine, Heinrich Eduard	16.03.1821 - 21.10.1881	Berlin, Germany	1842	BERLIN; KOENIGSBERG	Dirichlet, G.; Jacobi, C.
Hensel, Kurt	29.12.1861 - 01.06.1941	Koenigsberg, Prussia	1884	BERLIN	Kronecker, L.; Weierstrass, K.
Hermite, Charles Ferdinand	24.12.1822 - 14.01.1901	Dieuze, France	1847	ECOLE POLYTECHNIQUE	Jacobi, C.; Cauchy, A.
Hesse, Ludwig Otto	22.04.1811 - 04.08.1874	Koenigsberg, Prussia	1840	KOENIGSBERG	Jacobi, C.
Hilbert, David	23.01.1862 - 13.02.1943	Wehlau, East Prussia	1884	KOENIGSBERG (PHD); LEIPZIG; PARIS; BERLIN	Klein, F.; Hermite, C.; Jordan, C.; Poincare, H.; Kronecker, L.
Hipparchus of Nicaea and Rhodes	190 BC - 120 BC	Nicaea (Izник), Turkey	no degree	no degree	?
Hoelder, Otto Ludwig	22.12.1859 - 29.08.1937	Stuttgart, Germany	1882	TUEBINGEN	Kronecker, L. (Berlin)
Hopf, Heinz	19.11.1894 - 03.06.1971	Graehschen, Poland	1925	BERLIN	Schmidt, Erhard
Horner, William	1786 - 22.09.1837	Bristol, England	no degree	no degree	?
Hui, Yang	1238 - 1298	China	no degree	no degree	?
Jacobi, Carl Gustav Jacob	10.12.1804 - 18.02.1851	Potsdam, Germany	1823	BERLIN (PHD)	Dirichlet, Gustav P.
Jaenisch, Sigbert	?	?	1964	GIESSEN	Gaier, Dieter; Maruhn, Karl
<i>Janiszewski, Zygmunt</i>	12.06.1888 - 03.01.1920	Warsaw, Poland	1911	PARIS	Lebesgue, H.
Jones, Vaughan Frederick Randal	31.12.1952 -	Gisborn, New Zealand	1979	GENEVA	Haelffliger, A.
Jones, William	1675 - 03.07.1749	Llanfihangel, Tw'r Beird, Wales	no degree	no degree	?
Jordan, Marie Ennemond Camille	05.01.1838 - 22.01.1922	Lyons, France	1861	ECOLE POLYTECHNIQUE	Puiseux, Victor Alexandre

Julia, Gaston Maurice	03.02.1893 - 19.03.1978	Sidi-bel-Abbes, Algeria	1917	PARIS	Humbert, Georges; Picard, E.
Kepler, Johannes	27.12.1571 - 15.11.1630	Weil der Stadt, Germany	?	TUEBINGEN	Maestlin, Michael
Klein, Christian Felix	25.04.1849 - 22.06.1925	Duesseldorf, Germany	1869	BONN (PHD)	Lipschitz, Rudolf; Pluecker, J.; Clebsch, Alfred
Koch, Nils Fabian Helge von	25.01.1870 - 11.03.1924	Stockholm, Sweden	1892	STOCKHOLM	Mittag-Leffler, G.
Kolmogorov, Andrei N.	25.04.1903 - 26.10.1987	Tambov, Russia	1925	MOSCOW STATE	Uryson, Pavel S.; Luzin, Nikolai N.
<i>Kovalevskaya, Sophia V.</i>	15.01.1850 - 10.02.1891	Moscow, Russia	1874	GOETTINGEN (PHD)	Weierstrass, Karl
Kramp, Christian	08.07.1760 - 13.05.1826	Strasbourg, France	1790s	MD	?
Kronecker, Leopold	07.12.1823 - 1891	Liegnitz (Legnica), Poland	1845	BERLIN (PHD); BRESLAU	Dirichlet, G.; Kummer, E.
Krull, Wolfgang	26.08.1899 - 12.04.1971	Baden-Baden, Germany	1921	FREIBURG; GOETTINGEN	Loewy, Alfred; Klein, F.
<i>Kummer, Ernst Eduard</i>	29.01.1810 - 14.05.1893	Sorau (Zary), Poland	1831	HALLE (PHD)	Scherk, H.F.
<i>Kuratowski, Kazimierz</i>	02.02.1896 - 18.06.1980	Warsaw, Poland	1921	WARSAW	Janiszewski, Z; Mazurkiewicz, S.
Kutta, Martin Wilhelm	03.11.1867 - 25.12.1944	Pitschen (Byczyna), Poland	1901	MUNICH	von Dyck, Walter Franz Anton
L'Hôpital, Guillaume François, Marquis de Ste. Mesme	1661 - 02.02.1704	Paris, France	1691	?	Bernoulli, Jakob
L'Huilier, Simone	24.04.1750 - 28.03.1840	Geneva, Switzerland	?	CALVIN ACADEMY	Bertrand, Louis; Le Sage, Georges
<i>Lacroix, Sylvestre F.</i>	28.04.1765 - 24.05.1843	Macon, France	??	??	Monge, G.
Lagrange, Joseph-	25.01.1736 -	Cambiano, Italy	no degree	no degree	Euler, Leonhard

Louis	11.04.1813				
Laguerre, Edmond Nicolas	09.04.1834 - 14.08.1886	Bar-le-Duc, France	1850s	ECOLE POLYTECHNIQUE	?
Lambert, Johann Heinrich	26.08.1728 - 25.09.1777	Mulhausen, France	no degree	Goettingen/The Hague/Paris/Zurich	Bernoullis/Euler/Kaes tner/Mayer, Tobias/Pieter van Musschenbroek/d'Ale mbert/Gessner
Lame, Gabriel	22.07.1795 - 01.05.1870	Tours, France	1817; 1820	Ecole Polytech.; Ecole des Mines	?
Landau, Edmund	14.02.1877 - 19.02.1938	Berlin, Germany	1899	BERLIN	Frobenius, F.
Laplace, Pierre- Simon	23.03.1749 - 05.03.1827	Beaumont-en-Auge, France	1766+	CAEN; PARIS	D'Alembert, Jean
Lasker, Emanuel	24.12.1868 – 11.01.1941	Berlinchen, Prussia (now Barlinek, Poland)	1902	ERLANGEN	Hilbert, David
Lebesgue, Henri Leon	28.06.1875 - 26.07.1941	Beauvais, France	1890s 1902 (PHD)	ECOLE NORMALE; NANCY	Jordan, C.; Borel, Emile
<i>Lefschetz, Solomon</i>	03.09.1884 - 05.11.1972	Moscow, Russia	1911	CLARK (PHD)	Picard, Emile
Legendre, Adrien- Marie	18.09.1752 - 10.01.1833	Paris, France	1770	COLL. QUATRES NATIONS	Lagrange, Joseph
Leibniz, Gottfried Wilhelm von	01.07.1646 - 14.11.1716	Leipzig, Germany	1666	LEIPZIG (law)	Weigel, Erhard (Jena)
Leontief, Wassily Wassily	05.08.1906 - 1999	St. Petersburg, Russia	1927	ST. PETERSBURG; BERLIN	Sombart, Werner; Bortkiewicz, L.J.
<i>Leshniewski, Stanislaw</i>	30.03.1886 - 13.05.1939	Serpukhov, Russia	1912	LVOV	Twardowski, Kazimierz; Lukasiewicz, Jan (influence)
Levi, Beppo	14.05.1875 - 28.08.1961	Turin, Italy	1896	TURIN	Segre, Corrado

Levi-Civita, Tullio	29.03.1873 - 29.12.1941	Padua, Italy	1894	PADUA	Veronese, G.; Ricci-Curbastro, G.
Lie, Marie Sophus	17.12.1842 - 18.02.1899	Nordfjordeid, Norway	1871	CHRISTIANIA (PHD)	Pluecker, Julius; Klein, Felix
Lindemann, Carl Louis Ferdinand von	12.04.1852 - 06.03.1939	Hanover, Germany	1873	ERLANGEN	Klein, F.; Clebsch, R. (Goettingen)
Liouville, Joseph	24.03.1809 - 1882	St. Omer, France	1830	ECOLE PONTS & CHAUSSEES	Ampere, A.; Arago; Cauchy, A.
Listing, Johann Benedict	25.07.1808 – 24.12.1882	Göttingen, Germany	1834	GÖTTINGEN	Gauss, Carl
Lorentz, Hendrik Anton	18.07.1853 - 04.02.1928	Arnhem, Netherlands	1875	LEIDEN	Rijke, Pieter Leonard
Lorenz, Edward Norton	23.05.1917 -	West Hartford, Connecticut, USA	1948	MIT	Austin, J.M.
Lucas, François Édouard Anatole	04.04.1842 - 03.11.1891	Amiens, France	?	ECOLE NORMALE, AMIENS; PARIS OBSERVATORY	Le Verrier, Urbain Jean Joseph
Lyapunov, Aleksandr M.	06.06.1857 - 03.11.1918	Yaroslavl, Russia	1892	ST. PETERSBURG	Chebyshev, Pafnuty
Maclaurin, Colin	02.1698 - 14.06.1746	Kilmodan, Argyll, Scotland	1713	GLASGOW	Simson, Robert
Mandelbrot, Benoit B.	20.11.1924 -	Warsaw, Poland	1952	PARIS	Levy, Paul (Ecole Polytech., 1944+)
Markov, Andrei Andreyevich	14.06.1856 - 20.07.1922	Ryazan, Russia	1878	ST. PETERSBURG	Chebyshev, Pafnuty
Mathieu, Émile Léonard	15.05.1835 - 19.10.1890	Metz, France	1859	ECOLE POLYTECHNIQUE	?
Maurolico, Franciso	16.09.1494 - 22.07.1575	Messina, Italy	1521	priest	?
<i>Mazurkiewicz, Stefan</i>	25.09.1888 - 19.06.1945	Warsaw, Poland	1913	LVOV	Sierpinski, V.
Mellin, Robert Hjalmar	19.06.1854 – 05.04.1933	Liminka, Finland	1882	HELSINKI	Mittag-Leffler, G.

Menelaus of Alexandria	70 - 130	Alexandria, Egypt	no degree	no degree	?
Mercator, Gerardus	05.03.1512 - 02.12.1594	Rupelmonde, Belgium	1532	LOUVAIN	Frisius, Gemma
Mercator, Nicolaus	1620 - 14.01.1687	Rostock, Germany	1641	ROSTOCK	?
Mersenne, Marin	08.09.1588 - 01.09.1648	Oize, France	1611	SORBONNE (medicine)	Descartes, R.; Fermat, P.; Pascal, B.
<i>Mertens, Franz</i>	20.03.1840 - 05.03.1927	Schroda (Sroda), Poland	1865	BERLIN	Kronecker, L.
Minkowski, Hermann	22.06.1864 - 12.01.1909	Kovno, Russia	1885	KOENIGSBERG	Hilbert, D.; Hurwitz, Adolf
<i>Mittag-Leffler, Goesta</i>	16.03.1846 - 07.07.1927	Stockholm, Sweden	1872	UPPSALA (PHD); PARIS; BERLIN	Hermite, C.; Weierstrass, K.
Möbius, August Ferdinand	17.11.1790 - 26.09.1868	Schulpforta, Germany	1815	LEIPZIG	Pfaff, Johann; Gauss, Carl
Monge, Gaspard	09.05.1746 - 28.07.1818	Beaune, France	1760s	ECOLE ROY. GENIE MILITAIRE	?
<i>Moore, Eliakim Hastings</i>	26.01.1862 - 30.12.1932	Marietta, Ohio, USA	1885	YALE (PHD); BERLIN; LEIPZIG	Newton, H.A.; Kronecker, L.; Weierstrass, K.; Klein, F.
<i>Moore, Robert Lee</i>	14.11.1882 - 04.10.1974	Dallas, Texas, USA	1905	CHICAGO (PHD)	Veblen, O.
<i>Morley, Frank</i>	09.09.1860 - 17.10.1937	Woodbridge, England	1884 1898	CAMBRIDGE (BA)	?
Napier, John 8th Laird of Merchiston	1550 - 03.04.1617	Edinburgh, Scotland	1563	ST. ANDREWS	?
Navier, Claude L.M.H.	10.02.1785 - 21.08.1836	Dijon, France	1810s	ECOLE POLYTECHNIQUE	Fourier, J.
Neyman, Jerzy	16.04.1894 - 05.08.1981	Bendery, Moldavia	1924	WARSAW; KHARKOV; LONDON; PARIS	Bernstein, S.; Pearson, Karl; Lebesgue, Hadamard
Nicomedes	280 BC - 210 BC	Greece	no degree	no degree	?

<i>Noether, Amalie Emmy</i>	23.03.1882 - 14.04.1935	Erlangen, Germany	1908	GOETTINGEN (PHD)	Gordan, Paul Albert; Hilbert, D.; Klein, F.
Nunez Salacience, Pedro	1502 - 11.08.1578	Alcacer do Sal, Portugal	1525	LISBON (MD)	?
Oughtred, William	05.03.1575 - 30.06.1660	Eton, England	1600	CAMBRIDGE (MA)	?
Pappus of Alexandria	c. 290 -c. 350	Alexandria, Egypt	no degree	no degree	?
Parseval des Chenes, Marc- Antoine	27.04.1755 - 16.08.1836	Rosieres-aux- Salines, France	? ?		?
Pascal, Blaise	19.06.1623 - 19.08.1662	Clermont-Ferrand, France	no degree	no degree	Desargues, Girard; Fermat, P.
Pearson, Karl	27.03.1857 - 27.04.1936	London, England	1879	CAMBRIDGE	Sir Francis Galton
Pell, John	01.03.1611 - 12.12.1685	Southwick, Sussex, England	1630	CAMBRIDGE (MA)	?
Penrose, Roger	08.08.1931 -	Colchester, Essex	1957	LONDON	Todd, John Arthur
Peono, Giuseppe	27.08.1858 - 20.04.1932	Cuneo, Italy	1880	TURIN	D'Ovidio, Enrico
Petersen, Julius Peter Christian	16.06.1839 - 05.08.1910	Soro, Denmark	1871	COPENHAGEN	?
Picard, Charles Emile	24.07.1856 - 11.12.1941	Paris, France	1877	ECOLE NORMALE SUPER. PARIS	?
Pitiscus, Bartholomaeus	24.08.1561 - 02.07.1613	Gruenberg (Zielona), Poland	1595?	HEIDELBERG	?
Plateau, Joseph Antoine Ferdinand	14.10.1801 - 15.09.1883	Brussels, Belgium	1829	LIEGE	?
Plato	428 BC - 348 BC	Athens, Greece	no degree	no degree	?
Poincare, Jules Henri	29.04.1854 - 17.07.1912	Nancy, France	1879	PARIS	Hermite, Charles
Poisson, Simeon- Denis	21.06.1781 - 20.04.1840	Pithiviers, France	1800	ECOLE POLYTECHNIQUE	Laplace, Pierre
Polya, Gyorgy	13.12.1887 -	Budapest, Hungary	1911+	BUDAPEST;	Hilbert, D.; Toeplitz,

(George)	07.09.1985			GOETTINGEN	O.; Caratheodary, C.; Hecke, Erich
<i>Poncelet, Jean Victor</i>	01.07.1788 - 22.12.1867	Metz, France	1810	ECOLE POLYTECHNIQUE	Monge, G.; Ampere, A.
Ptolemy (Claudius Ptolemaeus)	90 - 168	Alexandria, Egypt	no degree	no degree	?
Pythagoras of Samos	6th century	Samos, Greece	no degree	no degree	?
Rahn, Johann Friedrich	10.03.1622 - 1676	Zurich, Switzerland	no degree	no degree	?
Ramanujan, Srinivasa Iyengar	22.12.1887 - 26.04.1920	Erode, India	1904	KUMBAKONAM; CAMBRIDGE	Hardy, Godfrey H.
Raphson, Joseph	1648 - 1715	Middlesex, England	1692	CAMBRIDGE (MA)	?
Recordes, Robert	1510 - 1558	Tenby, Wales	1531, 1545	OXFORD (BA), CAMBRIDGE (MD)	?
Reutersvard, Oscar	1915 -	?	?	?	?
Riccati, Jacopo Francesco	28.05.1676 - 15.04.1754	Venice, Italy	1690s	PADUA	Angeli, Stefano degli
Riccati, Vincenzo	11.01.1707 – 17.01.1775	Castelfranco, Veneto, Italy	1726	JESUIT ORDER	?
<i>Ricci-Curbastro, Gregorio</i>	12.01.1853 - 06.08.1925	Lugo, Italy	1875	PISA	Betti, Enrico
Riemann, Georg Friedrich Bernhard	17.09.1826 - 20.07.1866	Dannenberg, Germany	1851	BERLIN (PHD)	Dirichlet, G.
Riesz, Frigyes	22.01.1880 - 28.02.1956	Gyor, Hungary	1902	EOTVOS UNIV. BUDAPEST	Valyi, Gyula
Riesz, Marcel	16.11.1886 - 04.09.1969	Gyor, Hungary	1909	BUDAPEST	Fejer, Lipot
Rodrigues, Benjamin Olinde	16.10.1794 – 17.12.1851	Bordeaux, France	1816	ECOLE NORMALE	?
Rolle, Michel	21.04.1652 - 08.11.1719	Ambert, France	no degree	self-educated	?
Rudolff, Christoff	1499 - 1545	Jauer (Jawor), Poland	1521	VIENNA	?

Runge, Carle David Tolmé	30.08.1856 - 03.01.1927	Bremen, Germany	1880	BERLIN; STOCKHOLM	Weierstrass, K.; Kronecker, L.; Mittag- Leffler, G.
Russell, Bernard Arthur William, 3rd Earl Russell	18.05.1872 - 02.02.1970	Trelleck, Gwent, Wales	1894	CAMBRIDGE	?
Sarrus, J.P.	1789 - 1861	?	?	?	?
Schmidt, Erhardt	13.01.1876 - 06.12.1959	Dorpat (Tartu), Estonia	1905	GOETTINGEN	Hilbert, David
Schwarz, Karl Hermann Amandus	25.01.1843 - 30.11.1921	Hermsdorf, Poland	1864	BERLIN	Weierstrass, K.
Seidel, Ludwig Philipp von	24.10.1821 - 31.08.1896	Zweibruecken, Germany	1846	MUNICH	Dirichlet (Berlin); Bessel, Jacobi, Neumann Franz (Koenigsberg)
Servois, Francois Joseph	19.07.1767 - 17.04.1847	Mont-de-Laval, France	1794	CHALONS-SUR- MARNE ARTILLERY (Lieut.)	Legendre, A.M.
Shannon, Claude Elwood	30.04.1916 - 22.02.2001	Gaylord, Michigan, USA	1940	MIT	Bush, Vannevar
Sierpinski, Vaclav	14.03.1882 - 21.10.1969	Warsaw, Poland	1906	CRACOW; LVOV	Vorony, Georgy F.
Simpson, Thomas	20.08.1710 - 14.05.1761	Market Bosworth, England	no degree	no degree	?
<i>Smith, Henry John Stephen</i>	02.11.1826 - 1881	Dublin, Ireland	1845+	OXFORD	Jowett, Benjamin
Stevin, Simon	1548 - 1620	Bruges, Belgium	1583+	LEIDEN	?
Stieltjes, Thomas Jan	29.12.1856 - 31.12.1894	Zwolle, Netherlands	1873+	DÉLFÉ	Hermite, Charles
Stirling, James	? .05.1692 - 05.12.1770	Garden, Scotland	1710	EDINBURGH (matriculated)	?
Sylov, Peter Ludwig Mejdell	12.12.1832 - 07.09.1918	Oslo, Norway	1850s 1894 (PHD)	CHRISTIANIA; COPENHAGEN	?

Sylvester, James Joseph	03.09.1814 - 15.03.1897	London, England	1841	CAMBRIDGE (MA)	de Morgan, Augustus
<i>Takagi, Teiji</i>	21.04.1875 - 28.02.1960	Kasuya, Japan	1897	TOKYO (PHD); BERLIN; GOETTINGEN	Fujisawa, Rikitaro; Frobenius, Ferdinand; Hilbert, D.; Klein, F.
Tarski, Alfred	14.01.1902 - 26.10.1983	Warsaw, Poland	1924	WARSAW	Leshniewski, S.
Taylor, Brook	18.08.1685 - 29.12.1731	Edmonton, Middlesex, England	1709	CAMBRIDGE (LLB)	Keill, John
Thales of Miletus	624 BC - 545 BC	Miletus, Greece	no degree	no degree	?
Tukey, John Wilder	16.06.1915 - 26.07.2000	New Bedford, Mass., USA	1939	PRINCETON	Lefschetz, Solomon
Turing, Alan Mathison	23.06.1912 - 07.06.1954	London, England	1935	CAMBRIDGE; PRINCETON	Newman, Maxwell H.A.
Tutte, William Thomas	14.05.1917 – 02.05.2002	Newmarket, Suffolk, England	1948	CAMBRIDGE	Wylie, Shaun
Ulam, Stanislav	03.04.1909 - 13.05.1984	Lemberg (Lvov), Ukraine	1933	POLYTECH. INST. LVOV	Banach, S.
Vandermonde, Alexandre Théophile	28.02.1735 - 01.01.1796	Paris, France	1757	PARIS (music)	Lagrange, J.; Monge, G.
Varignon, Pierre	1654 - 23.12.1722	Caen, France	1682 1687	CAEN (MA) ACAD. ROY. SCI. PARIS	?
Veblen, Oswald	24.06.1880 - 10.08.1960	Decorah, Iowa, USA	1903	CHICAGO (PHD)	Moore, E.H.
Venn, John	04.08.1834 - 04.04.1923	Drypool, Hull, England	1857	CAMBRIDGE	?
Vieta, François Viète	1540 - 13.12.1603	Fontenay-le-Comte, France	1560	POITIERS (law)	?
Vinogradov, Ivan Matveïevitch	14.09.1891 - 20.03.1983	Milolyub, Russia	1914	ST. PETERSBURG	Uspenskii; Markov, A.
Volterra, Vito	03.05.1860 -	Ancona, Italy	1882	PISA	Betti, Enrico

	11.10.1940				
von Mises, Richard	19.04.1883 - 14.07.1953	Lvov, Ukraine	1907	VIENNA	?
von Neumann, Janos (John)	28.12.1903 - 08.02.1957	Budapest, Hungary	1925	BUDAPEST; GOETTINGEN	Polya, G.; Hilbert, D.; Heisenberg, W.
Wallis, John	23.11.1616 - 28.10.1703	Ashford, Kent, England	1640s	CAMBRIDGE	?
Weibull, E.H. Wallodi	18.06.1887 - 12.10.1979	Sweden	1932	UPPSALA	?
Weierstrass, Karl Theodor Wilhelm	31.10.1815 - 19.02.1897	Muenster, Germany	1834	THEOL. & PHIL. ACADEMY, MUENSTER	Gudermann, Christoff
Wenzelides	?	?	?	?	?
Weyl, Claus Hugo Hermann	09.11.1885 - 09.12.1955	Elmshorn, Germany	1908	GOETTINGEN (PHD)	Hilbert, David
Widman, Johannes	1462 - 1498	Eger (Cheb), Czech Republic	1485	LEIPZIG (masters)	?
Wiener, Norbert	26.11.1894 - 18.03.1964	Columbia, Missouri, USA	1913	HARVARD (PHD); CAMBRIDGE	Russell, Bernard; Hardy, G.H.
Wilcoxon, Frank	02.09.1892 - 1965	Cork, Ireland	1924	CORNELL	Browne, Arthur W.
Wiles, Andrew J.	11.04.1953 -	Cambridge, England	1980	CAMBRIDGE	Coates, John Henry
Wronski, Józef Hoëné de	23.08.1778 - 08.08.1853	Wolsztyn, Poland	no degree	no degree	?
<i>Zariski, Oscar</i>	24.04.1899 - 04.07.1986	Kobrin, Russia	1918	KIEV; ROME	Castelnuovo, Guido
Zeno of Elea	490 BC - 430 BC	Elea, Lucania, Italy	no degree	no degree	Parmenides
Zermelo, Ernst F.F.	27.07.1871 - 21.05.1953	Berlin, Germany	1894	BERLIN	Weierstrass, K.; Planck, M. (Berlin)
Zorn, Max A.	06.06.1906 - 09.03.1993	Krefeld, Germany	1930	HAMBURG	Artin, Emil

Notes:

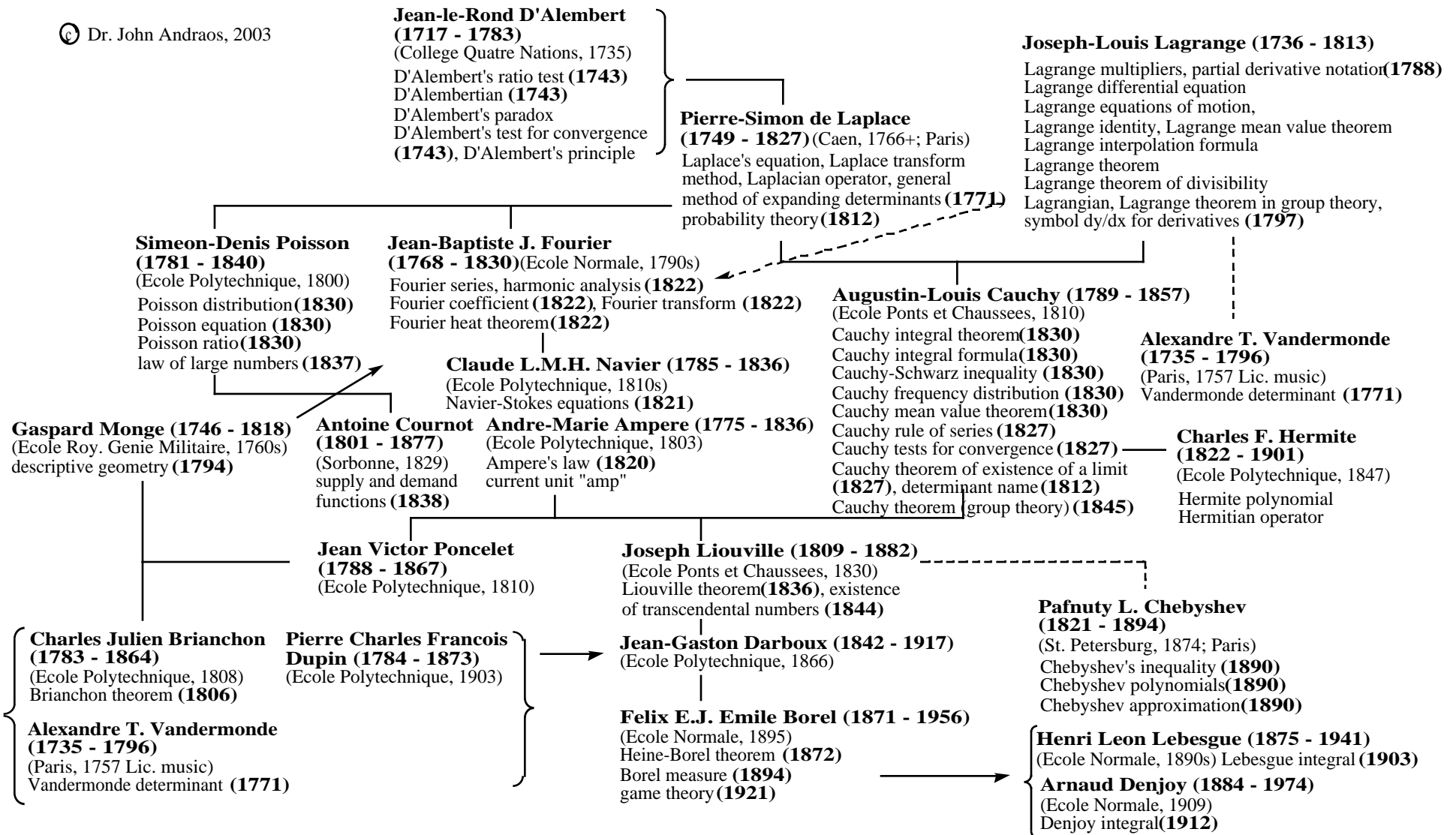
Bolded names are those that are still alive at the time of this writing.

Italicized names do not have named mathematical things attributed to them.

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1. Dunham, William *Euler: the master of us all*, Mathematical Association of America: Washington, DC, 1999
1. Hazewinkel, M. (ed.) *Encyclopedia of Mathematics*, Kluwer Academic Publishing: Dordrecht, 1993
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1. Mathematical Genealogy Project, <http://genealogy.math.ndsu.nodak.edu>

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Jakob Bernoulli (I)
(1654 - 1705)

(Basel, 1676 Lic. theology)

Bernoulli's theorem, catenoid equation (1690), formula for radius of curvature
 Bernoulli's differential equation, polar co-ordinates (1691), coined "integral" term
 Bernoulli distribution(1800), Bernoulli effect, Bernoulli numbers(1713)
 Bernoulli trials, Bernoulli's lemniscate(1694)

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Johann Bernoulli (I)
(1667 - 1748)

(Basel, 1694)

brachistochrone problem (1696)

Nikolaus Bernoulli (II)
(1695 - 1726)

(Lic. jurisprudence, 1715)

Leonhard Euler
(1707 - 1793)

(Basel, MA 1724)

Guillaume F. L'Hopital
(1661 - 1704)

L'Hopital's rule (1690)

Johann H. Lambert
(1728 - 1777)

hyperbolic functions(1770)
 Beer-Lambert-Bouguer law
 (1729, 1852), proof that pi is
 irrational(1768)

Daniel Bernoulli
(1700 - 1782)

(Basel, 1721)

Bernoulli's theorem, Bernoulli law
 of flow (1738)
 Bernoulli's differential equation
 Bernoulli distribution(1800)
 Bernoulli equation
 for roots of
 quadratics,
 acoustics
 introduced
 calculus of
 probability

Euler's series/Euler's logarithm formula (1731), Euler's constant (gamma) (1731),
 Euler polyhedron formula, Euler magic square, Euler's formula (exp(ix)) (1750),
 Euler product (1740), Euler integral, Eulerian angles, Euler's equations of motion, calculus of finite
 differences (1755), trigonometry (1748), Euler zeta function as infinite series(1740), Koenigsberger
 bridges problem (1736), Euler definition of function(1749), summation symbol; Euler polyhedron formula(1752)
 trigonometry (1748), Fermat last theorem proof (n = 4)(1753), symbol e for natural log base(1727), Euler's conjecture (1769)
 symbol i for imaginary numbers(1794)

Gabriel Cramer (1704 - 1752)

(Geneva, 1722; Basel)

Cramer's rule (1750)

Joseph-Louis Lagrange
(1736 - 1813)

Adrien-Marie Legendre
(1752 - 1833)

(College Quatres Nations, 1770)

Legendre polynomial(1805)

Fermat last theorem proof (n = 5)(1825)

George Boole
(1815 - 1864)

Boolean algebra (1847)

Etienne Bezout
(1730 - 1783)

no degree
 Bezout elimination(1779)
 factor theorem (1779)

Augustin-Louis Cauchy (1789 - 1857)
 (Ecole Ponts et Chaussees, 1810)

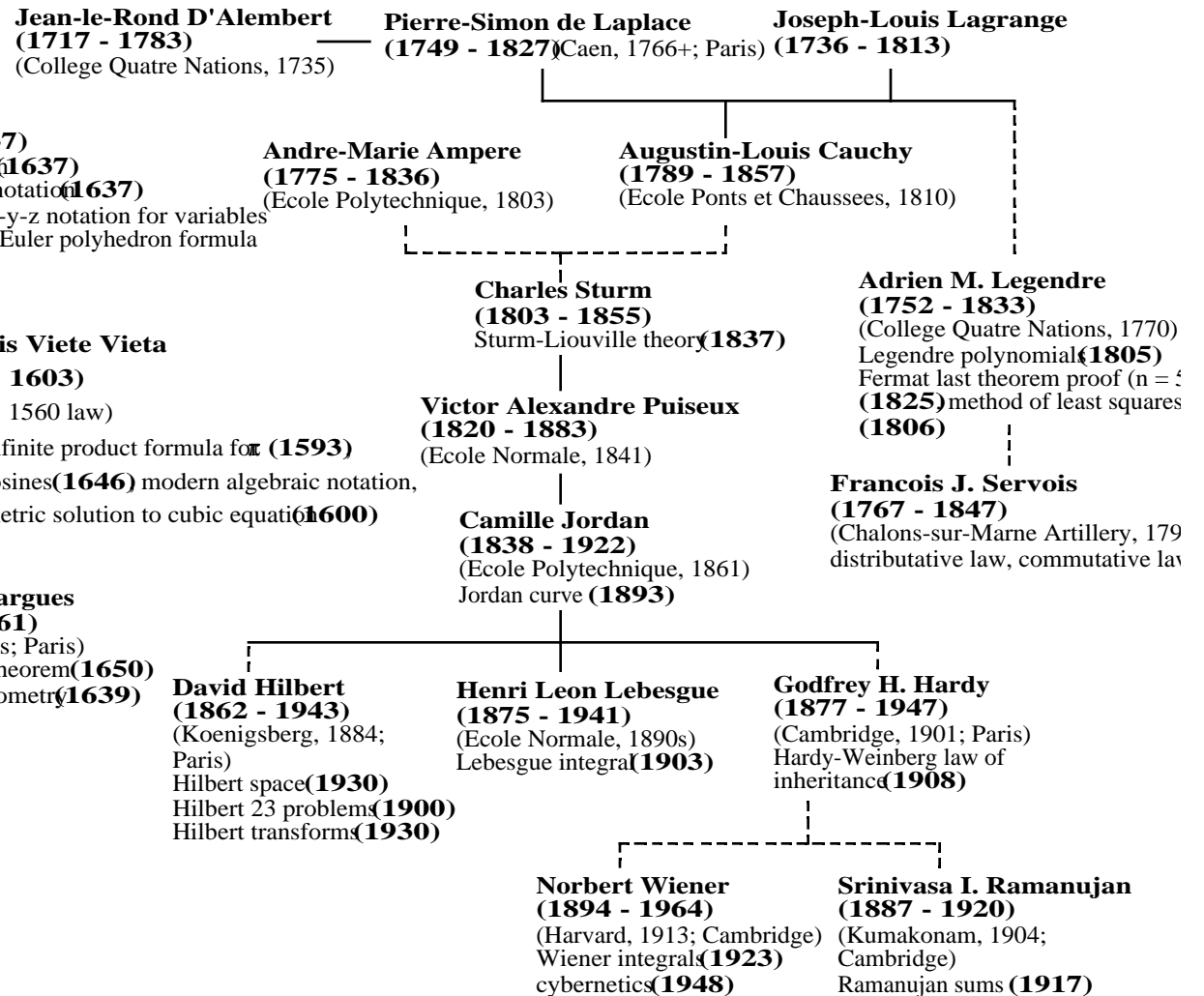
Jean-Baptiste J. Fourier
(1768 - 1830) (Ecole Normale, 1790s)

Alexandre T. Vandermonde
(1735 - 1796)
 (Paris, 1757 Lic. music)

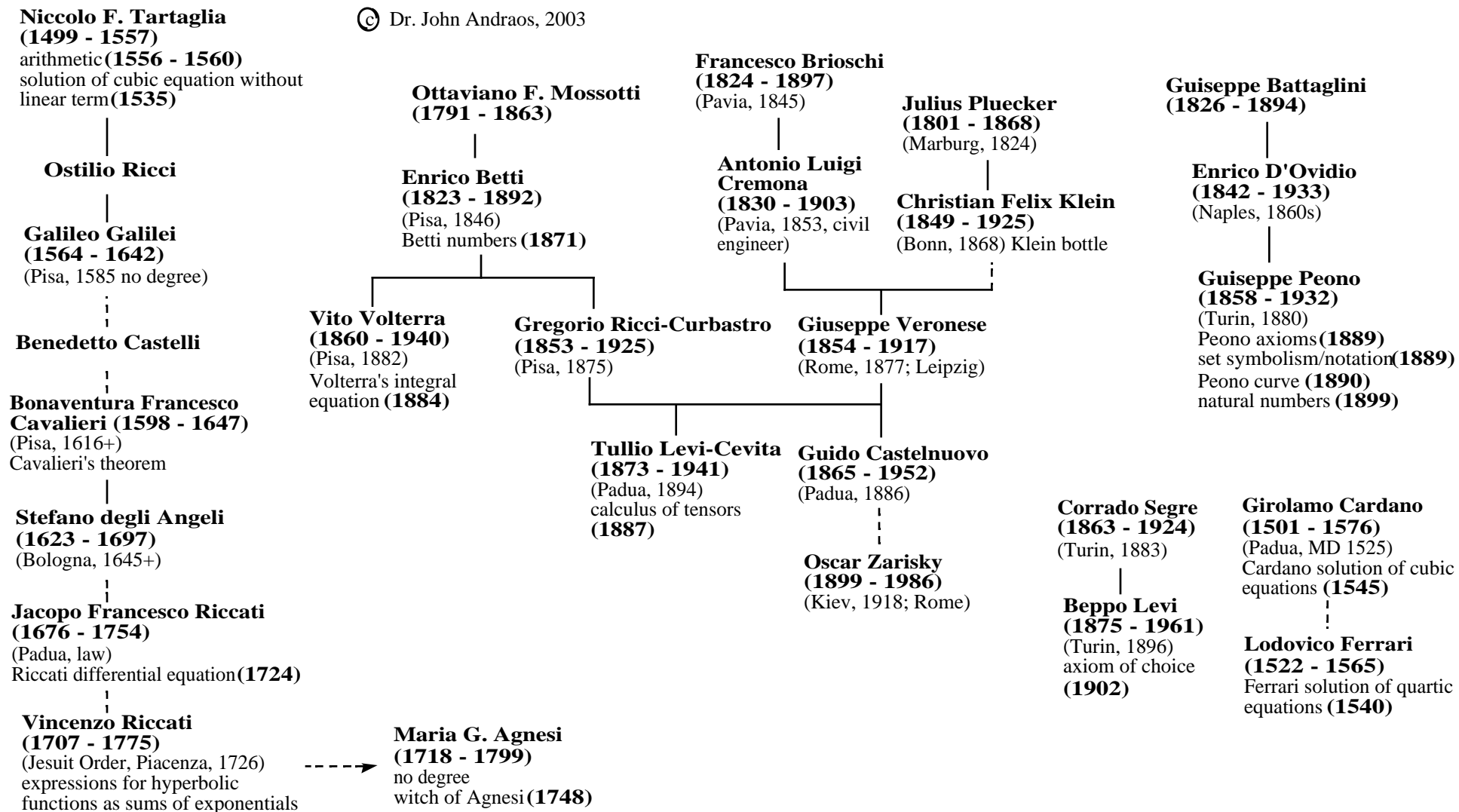
Jean Robert Argand
(1768 - 1822)

Argand diagram (1806)

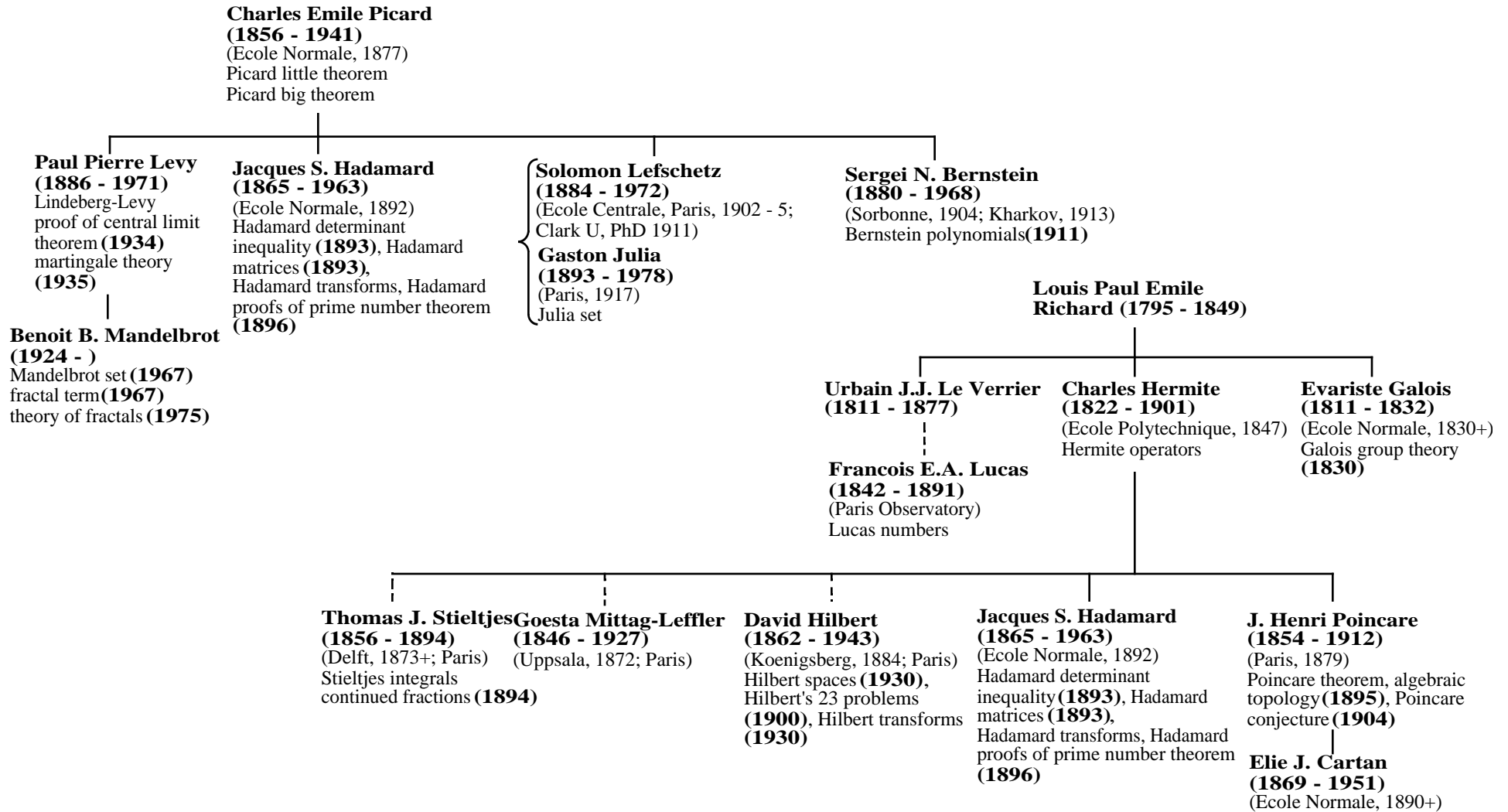
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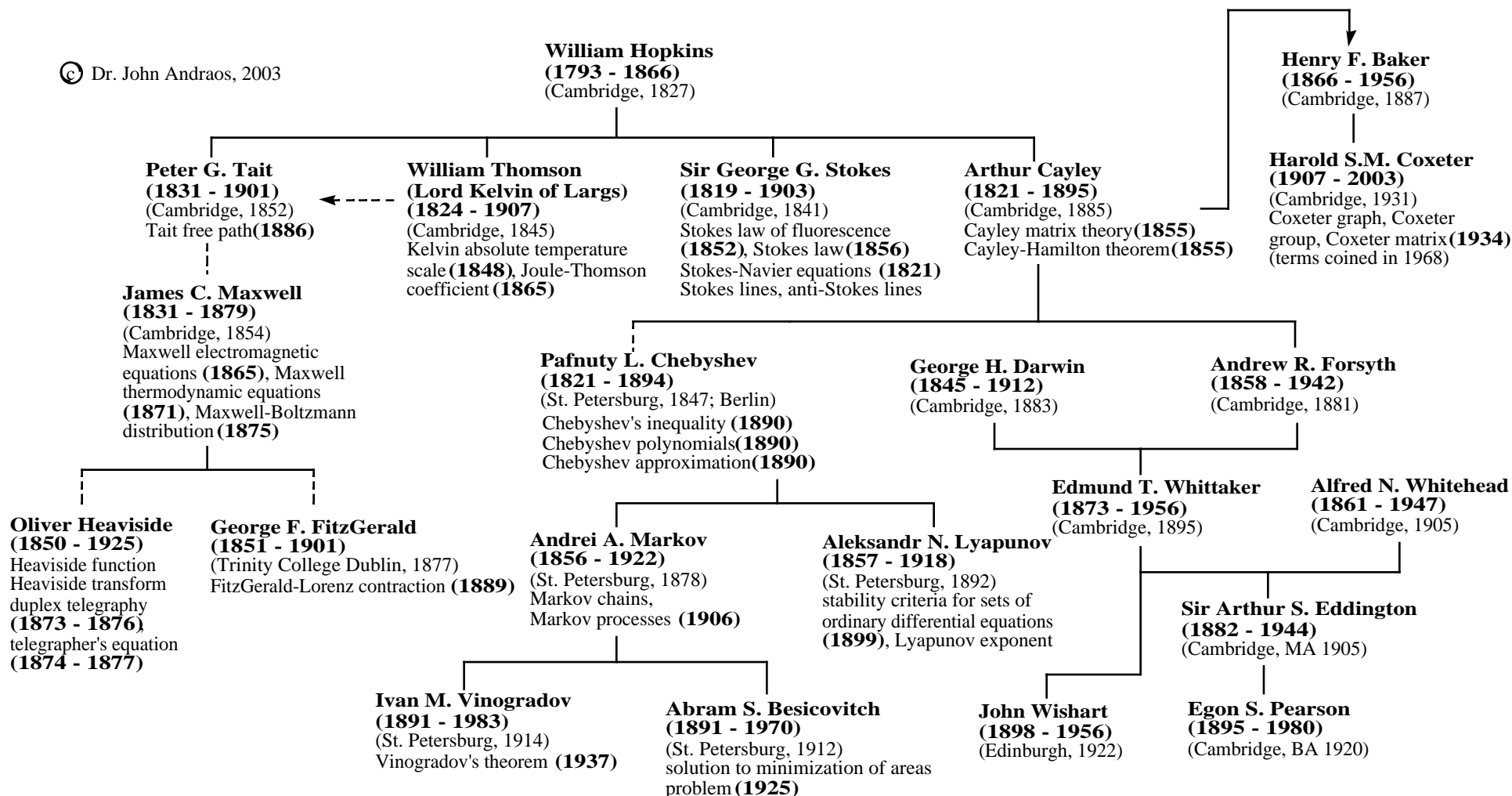
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Charles Emile Picard
(1856 - 1941)
(Ecole Normale, 1877)
Picard little theorem
Picard big theorem

Sergei N. Bernstein
(1880 - 1968)
(Sorbonne, 1904; Kharkov, 1913)
Bernstein polynomials(1911)

Jerzy Neyman
(1894 - 1981)
(Warsaw, 1924; Kharkov)
hypothesis testing(1928)
Neyman's confidence intervals (1934)
Neyman-Pearson p-value formulation

George Dantzig
(1914 -)
(UC Berkeley, 1946)
simplex method of
optimization(1947)

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Henri Leon Lebesgue
(1875 - 1941)
(Ecole Normale, 1890s)
Lebesgue integral(1903)

Zygmunt Janiszewski
(1888 - 1920)
(Paris, 1911)

Kazimierz Kuratowski
(1896 - 1980)
(Warsaw, 1921)
Kuratowski theorem on planar
graphs (1930)

Karl Pearson
(1857 - 1936)
(Cambridge, 1879)
skew distributions (1895)
Pearson system for characterizing
distributions: mean, standard deviation,
symmetry, kurtosis(1893)
standard deviation (1893)
chi-square test and statistic for
goodness of fit (1900)
degrees of freedom

William S. Gosset
(1876 - 1937)
(Oxford, 1899; Galton Biometrical Lab)
student t-test, probable error
of the mean(1908)

George F. Vorony
(1868 - 1908)
(St. Petersburg, 1894 masters)

Vaclav Sierpinski
(1882 - 1969)
(Cracow, 1906; Lvov)
Sierpinski sponge, triangle,
carpet

Stefan Mazurkiewicz
(1888 - 1945)
(Lvov, 1913)

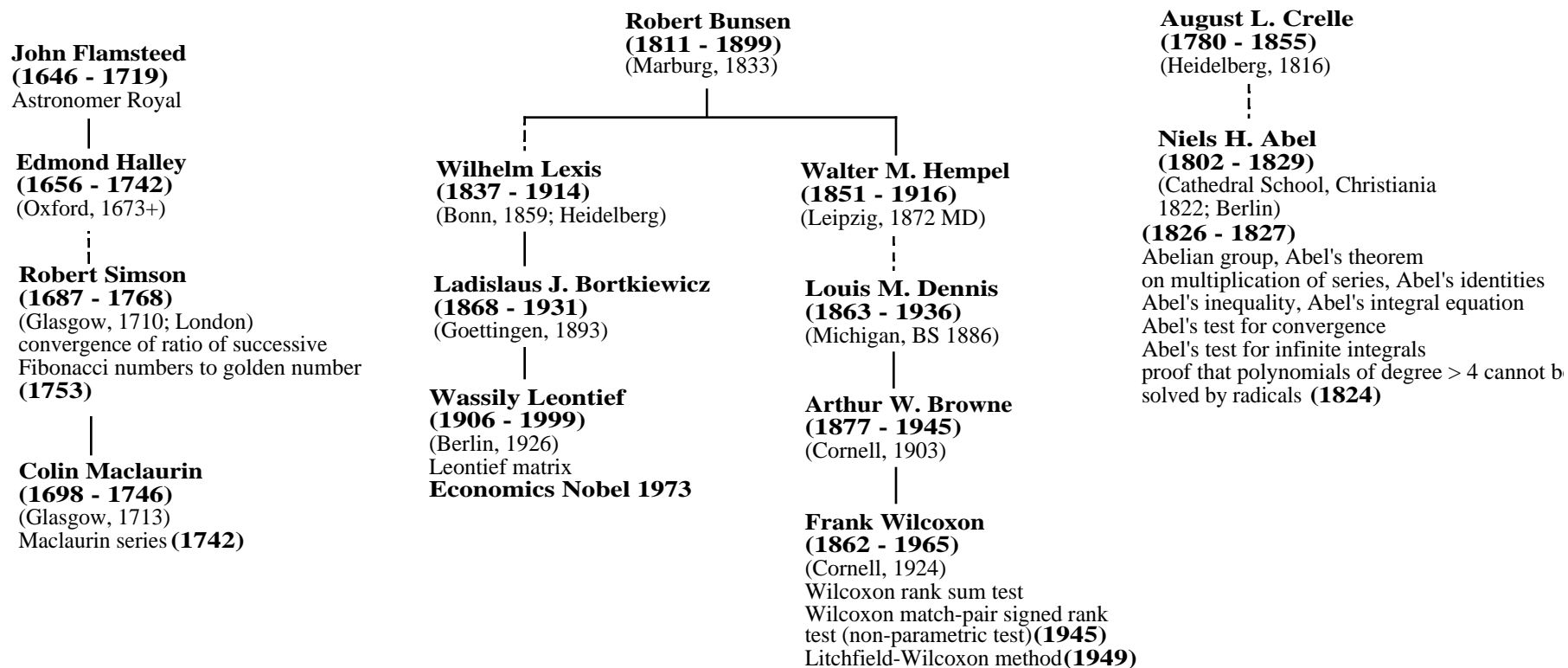
Sir George B. Airy
(1801 - 1892)
(Cambridge, 1823)
Airy functions, equations
Airy disk, Airy integral

Sir Ronald A. Fisher
(1890 - 1962)
(Cambridge, BA 1912)
distribution of correlation coefficient(1915)
concept of likelihood, maximum
likelihood estimator (MLE)(1921)
analysis of variance (1923)
analysis of co-variance (1922)
concept of degrees of freedom (1924)
theory of statistical estimation(1925)
general theory of natural selection(1930)

John Wishart
(1898 - 1956)
(Edinburgh, 1922)

Chester I. Bliss
(1899 - 1979)
(Columbia, 1926; UC London)
probit analysis(1935)

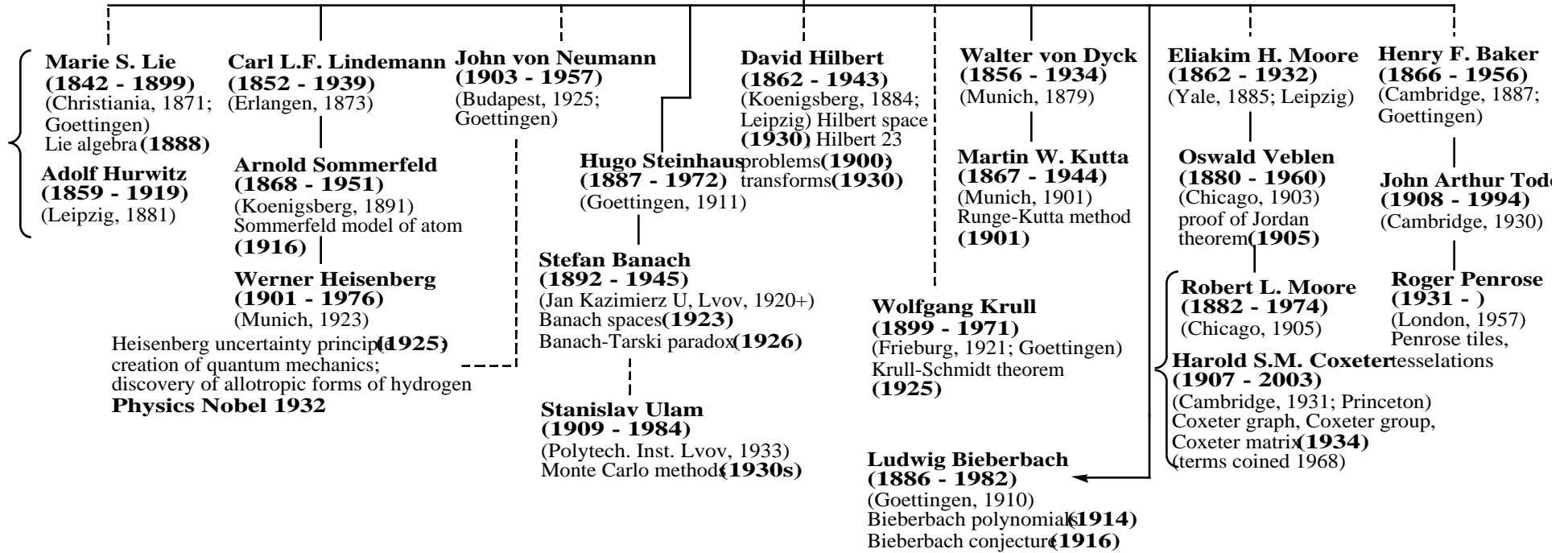
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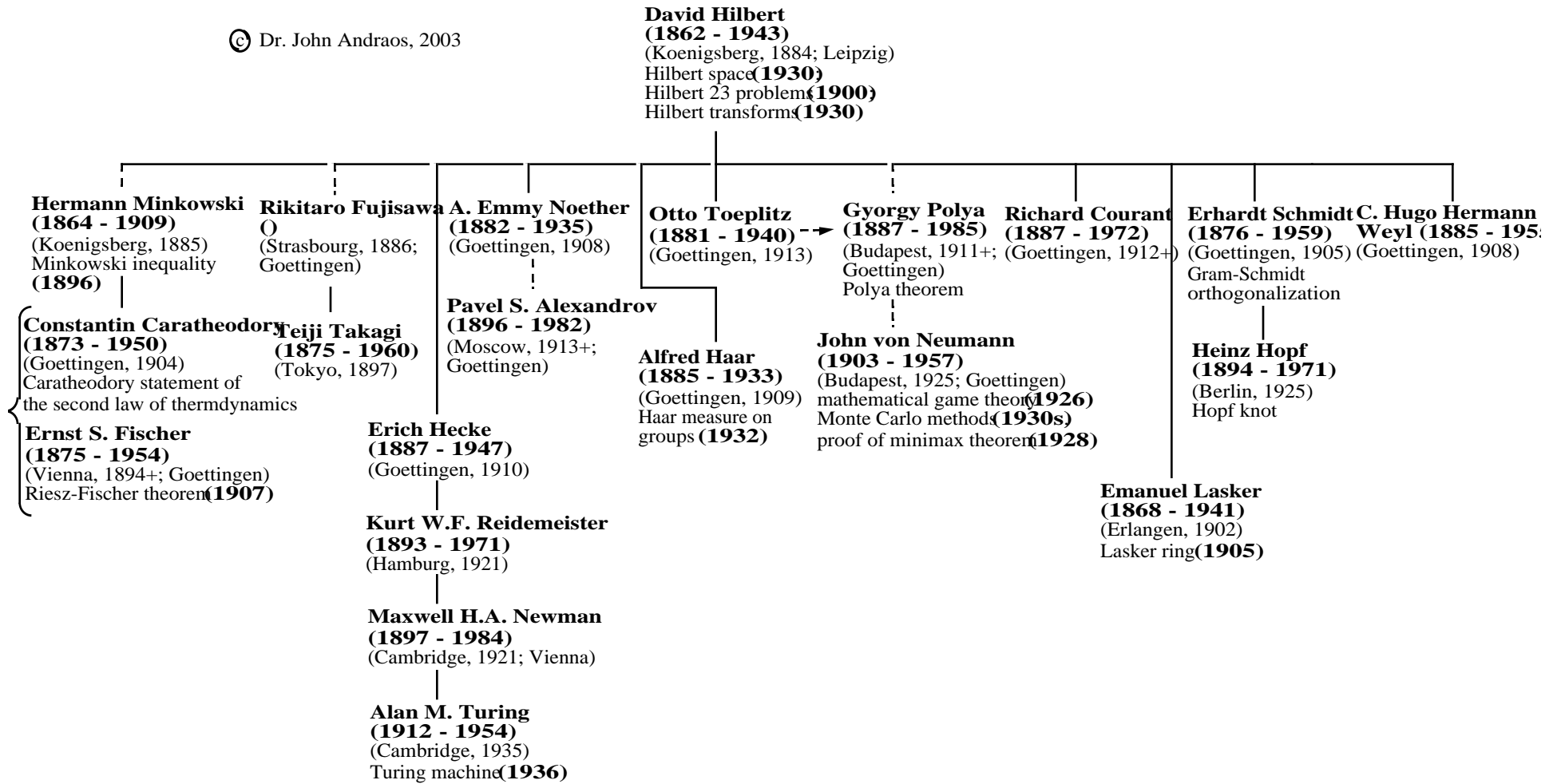
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Julius Pluecker
(1801 - 1868)
(Marburg, 1824)

Christian Felix Klein
(1849 - 1925)
(Bonn, 1868) Klein bottle (1871) Erlangen program (1872)



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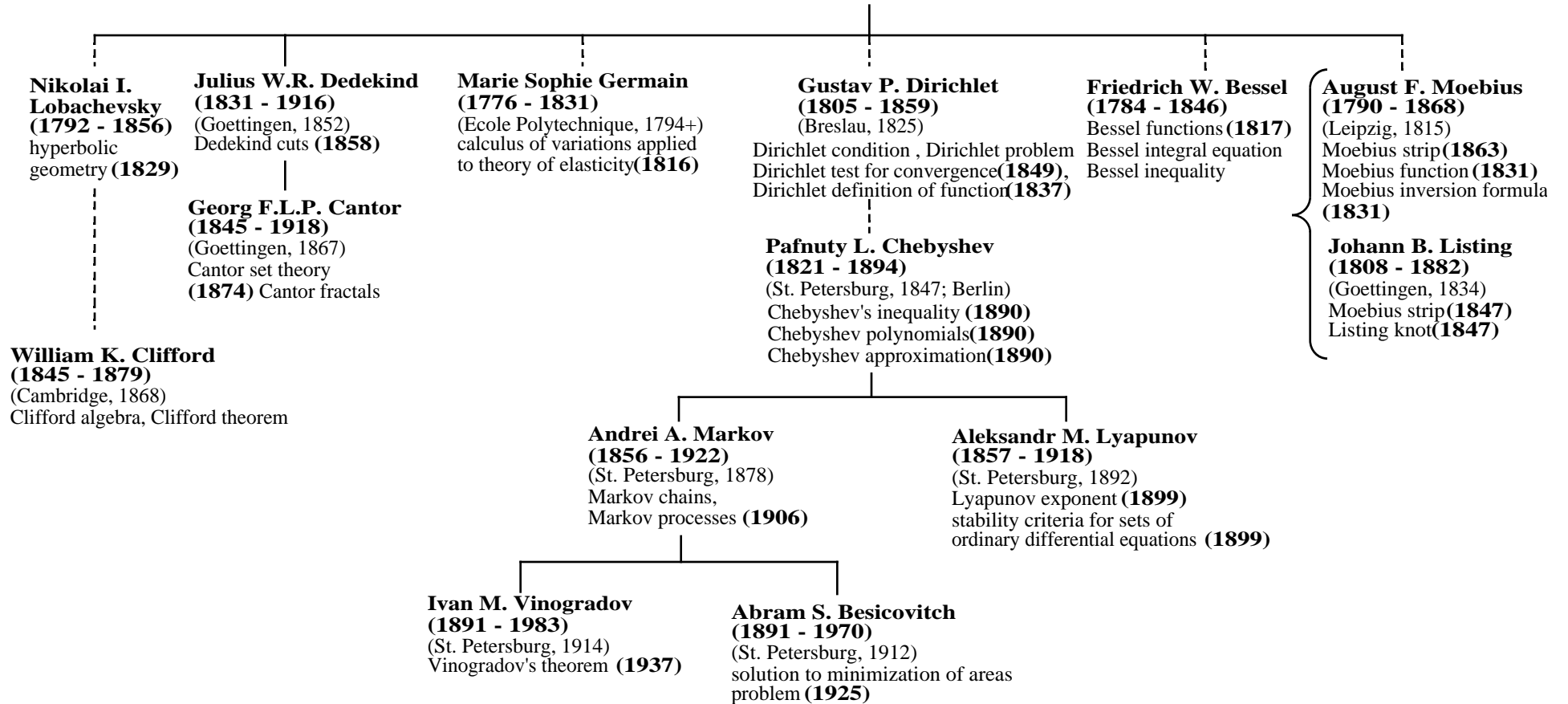


Johann F. Pfaff
(1765 - 1825)
(Hohe Karlsschule, Stuttgart, 1785, law)
Pfaffian forms (1815)

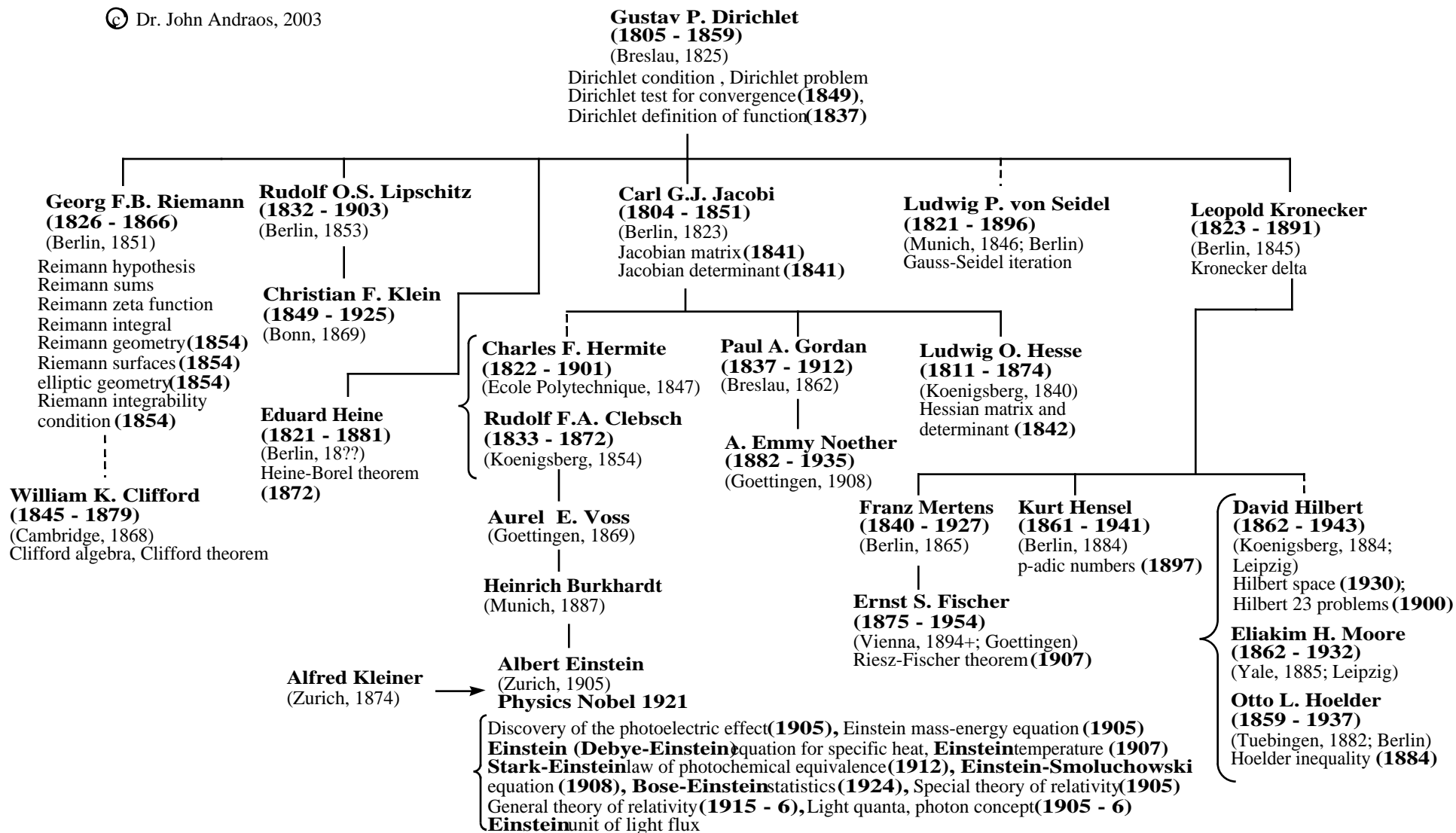
Carl F. Gauss
(1777 - 1855)
(Helmstedt, 1801;
Goettingen, 1804)

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Gaussian function, Gauss' law (1877), Gaussian distribution (1733), Gauss integral formula (1863), gauss unit of magnetic field strength, drawing of regular 17-gon (1796), Gauss-Jordan elimination, Gauss-Seidel iteration, modular arithmetic, proof of Fermat last theorem for $n = 3$ law of quadratic reciprocity (1796), proof of Fermat's conjecture (1801), Gaussian curvature (1828)



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Karl T.W. Weierstrass
(1815 - 1897)
 (Muenster, 1834)
 Theological & Philosophical Academy
 Weierstrass approximation theorem **(1890)**
 Weierstrass test for convergence **(1890)**
 Weierstrass inequalities **(1890)**

Ernst E. Kummer
(1810 - 1893)
 (Halle, 1831)

