

Contents

<i>Preface</i>	<i>page xi</i>
<i>Prologue</i>	<i>xiii</i>
1 From Euler to Legendre	1
Leonhard Euler (1707–1783)	1
Jean-le-Rond d’Alembert (1717–1783)	8
Joseph-Louis Lagrange (1736–1813)	14
Gaspard Monge (1746–1818)	20
Pierre-Simon Laplace (1749–1827)	28
Adrien-Marie Legendre (1752–1833)	36
2 From Fourier to Cauchy	42
Joseph Fourier (1768–1830)	42
Sophie Germain (1776–1831)	47
Carl Friedrich Gauss (1777–1855)	58
Siméon-Denis Poisson (1781–1840)	69
Jean Victor Poncelet (1788–1867)	76
Augustin Cauchy (1789–1857)	81
3 From Abel to Grassmann	91
Niels Abel (1802–1829)	91
Carl Jacobi (1804–1851)	97
Lejeune Dirichlet (1805–1859)	103
William Rowan Hamilton (1805–1865)	109
Joseph Liouville (1809–1882)	116
Hermann Grassmann (1809–1877)	123
4 From Kummer to Cayley	129
Ernst Kummer (1810–1893)	129
Evariste Galois (1811–1832)	134
J.J. Sylvester (1814–1897)	141
Karl Weierstrass (1815–1897)	150
P.L. Chebyshev (1821–1894)	159
Arthur Cayley (1821–1895)	165

5	From Hermite to Sophus Lie	173
	Charles Hermite (1822–1901)	173
	Leopold Kronecker (1823–1891)	177
	Bernhard Riemann (1826–1866)	182
	Henry Smith (1826–1883)	189
	Richard Dedekind (1831–1916)	195
	Sophus Lie (1842–1899)	200
6	From Cantor to Hilbert	208
	Georg Cantor (1845–1918)	208
	Gösta Mittag-Leffler (1846–1927)	215
	Felix Klein (1849–1925)	219
	Sonya Kovalevskaya (1850–1891)	230
	Henri Poincaré (1854–1912)	237
	David Hilbert (1862–1943)	246
7	From E.H. Moore to Takagi	258
	E.H. Moore (1862–1932)	258
	Jacques Hadamard (1865–1963)	263
	Felix Hausdorff (1868–1942)	271
	Elie Cartan (1869–1951)	279
	Emile Borel (1871–1956)	283
	Teiji Takagi (1875–1960)	292
8	From Hardy to Lefschetz	299
	G.H. Hardy (1877–1947)	299
	Oswald Veblen (1880–1960)	306
	L.E.J. Brouwer (1881–1966)	313
	Emmy Noether (1882–1935)	321
	R.L. Moore (1882–1974)	326
	Solomon Lefschetz (1884–1972)	333
9	From Birkhoff to Alexander	340
	George Birkhoff (1884–1944)	340
	Hermann Weyl (1885–1955)	345
	George Pólya (1887–1985)	350
	Srinivasa Iyengar Ramanujan (1887–1920)	357
	Richard Courant (1888–1972)	362
	J.W. Alexander (1888–1971)	372

10 From Banach to von Neumann	380
Stefan Banach (1892–1945)	380
Norbert Wiener (1894–1964)	386
P.S. Aleksandrov (1896–1982)	392
Oscar Zariski (1899–1986)	401
A.N. Kolmogorov (1903–1987)	407
John von Neumann (1903–1957)	412
<i>Epilogue</i>	417
<i>Further Reading</i>	423
<i>Collections</i>	426
<i>Acknowledgements</i>	429