

- Bachet 149
- backwards causation 54
- Baghdad 115
- Barrow 155
- Beltrami 90
- Ben Ezra 121
- Berkeley 56, 160
- Bernays 92, 268, 301
- Bhaskara 113, 114
- Bible 109, 126
- binary 11
- Binomial Theorem 155
- biquaternion 212
- Boethius 109
- Bolyai 90
- Bombelli 130
- Book of Changes 11
- Boole 267
- Bourbaki 83, 84, 87, 175
- Brahe 142
- Brahmagupta 3, 113, 233
- Briggs 141
- Brouwer 176, 271, 277
- buckminster fullerene 45
- buckyball 45
- calculation 245
- calculus 98, 118, 156, 281
- Cantor 68, 219
- Cardano 3, 129, 195
- cardinal 219
- cartesian 90, 170
- Casanova 80
- category 162, 295, 297
- cattle problem 100
- Cauchy 191
- Cavalieri 153
- chemical equation 42
- Chen Jing-Run 18, 112
- China 3, 11, 18, 111, 125, 149, 151
- Ch'in Chiu Shao 112
- Chiu Chang Suan Shu 111
- Chinese remainder 111
- chord 104, 113, 130, 153
- Christian 112
- Christina 146
- Ch'ung Chih 112
- Church 147, 176, 252, 259
- Chu Shih Chieh 112
- cipher key 18
- circle 9, 60, 64, 98, 153
- circle squaring 60, 71, 79
- classical problems 71, 79
- Cleopatra 83
- Cohen 220, 245
- Cole 38
- Columbus 95, 126
- combinator 262
- commensurable 47
- complete ordered field 192
- completeness 86, 289, 290
- complex 3, 122, 129, 130, 176, 195
- comprehension scheme 267
- concrete category 295
- conic section 64, 94, 147
- Constantine 107
- construction, ruler and compass 71
- continuous 30, 61, 85, 199
- continued fractions 228
- continuum hypothesis 245
- convergent 165, 228
- Copernicus 1, 94, 141
- cosines, law of 86
- count nouns 30
- Couture 285
- Coxeter 151, 165
- creator 39, 43
- Crotone 33
- cryptography 18
- cubic equation 118, 119, 128, 132
- Curry 224
- cycloid 154
- da Coi 128
- d'Alembert 199
- Davis 246
- Dedekind 3, 269

- De Gang Ma 112
- de la Vallée Poussin 18
- Delian problem 62, 71
- Democritus 7, 31, 57
- De Moivre 73, 124, 164, 165, 197
- De Morgan 267, 286
- Desargues 145
- Descartes 44, 75, 146, 164
- Dieudonné 87, 175, 176
- Diophantine 100, 233, 255
- Diophantus 27, 100, 105, 149, 233
- Dirac 216
- directrix 95
- Dirichlet 149
- discrete 30, 61
- distributive law 48
- divine 34, 126
- division ring 204
- double negative 265, 271, 275
- doubling cube 62, 65, 71, 80, 81, 147
- eccentricity 95
- eclipse 2, 29
- Egypt 7, 16, 41, 159
- Eilenberg 303
- Einstein 212, 217
- electromagnetic 211, 217
- electron 54
- Elements* 16, 61, 83, 121
- ellipse 153
- elliptic geometry 85, 91
- Empedocles 57
- enumerable 251
- Eratosthenes 17, 95
- Erdős 10, 16, 245
- Euclid 16, 34, 37, 48, 83, 156, 196, 228
- Eudoxus 3, 61, 63–64, 84, 86, 191
- Euler 39, 44, 82, 164, 207
- Euler's Formula 44, 165
- excluded middle 68, 100, 265, 271
- Ezekiel 22
- factorization 16, 18
- Faltings 150
- Fermat 81, 148, 165, 242
- Ferrari 129
- Ferro 128
- Feynman 54
- Fibonacci 106, 122, 256
- field 80, 87, 162, 184, 189
- figurative 35, 169
- Fiore 128
- Fitzgerald 119
- fixpoint 262
- flow diagram 247
- fluent 157
- fluxion 155, 163
- focus 95
- formalist 176, 294
- Four Colour Theorem 295
- Four Weight Problem 12
- Fowler 227
- Fraenkel 268
- Francis 122
- Frederick II 122, 166
- Frege 267
- Frey 243
- function 259, 262, 296
- functor 299
- Fundamental Theorem of Algebra 199
- Fundamental Theorem of Arithmetic 16, 231
- Galileo 141, 147, 156, 320
- Galois 136
- Gauss 3, 16, 81, 86, 90, 169, 199
- generating function 123
- Gentzen 273
- George I 160
- Gerbert 121
- Girard 199
- God 22, 148, 150, 151, 161, 176, 268
- Gödel 220, 245, 253, 268, 289
- Goldbach 17, 18, 112

- golden ratio 64, 74, 124, 126, 230, 237
- Golenishchev 7
- graha 1
- graph 297, 304
- gravity 156
- Gregory 154, 155
- group 162, 184
- Hadamard 18
- Hafiz 119
- Hamilton 3, 175, 203
- Harriot 126
- Hasan 119
- Heath 106
- Heaviside 211
- Hegel 53
- Henkin 289
- Heraclitus 31, 53
- Hermite 79, 212
- Herodotus 7
- Heron 22, 104, 114
- Heyting 277
- Hilbert 17, 87, 91, 107, 146, 245, 255, 293
- Hipparchus 22, 105
- Hippasus 43, 47
- Hippias 59
- Hippocrates 61, 84
- Hiram of Tyre 27
- Hooke 156
- Horner 112
- Hoyle 2
- Hrotsvitha 121
- Huygens 154
- Hypatia 108
- hyperbolic geometry 90
- icosahedron 42, 44
- India 3, 112, 155, 233
- infinite 31, 68, 114, 118, 219
- infinitesimal 56, 160
- injective 189
- integers 183
- integral domain 183
- intuitionist 68, 176, 272, 294
- intuitionistic logic 271, 281
- Ionia 29, 69
- Iraq 2, 21
- irrationality 35, 47
- Jesus 107, 129, 139
- Jones 98
- Jordanus 122
- Joseph 8
- Jupiter 1, 142
- Justinian 109
- kebu 1
- Kepler 142, 156
- Khayyam 119, 128
- Kingsley 108
- Kleene 251
- Klein-Gordon 215
- Koerberer 27
- Kolmogorov 277
- Kronecker 28, 176, 268
- Kummer 149
- Lagrange 113, 166, 207, 237, 255
- Lambda Calculus 259, 289
- Laplace 167
- Lawvere 54, 309
- Least Action 161
- Legendre 17, 86, 89, 149, 167, 170
- Leibniz 56, 159, 267
- Lenin 54
- Leonardo, see Fibonacci
- Lewis 109
- Lilavati 114
- limit 55, 160
- Lindemann 79
- Lipschitz 208
- linear equations 111, 114, 233
- linear functional 307
- linear transformation 307
- Lobachevsky 90, 203
- logarithm 17, 139
- logic 53, 265

- logician 176, 267, 294
- Lorentz transformation 212
- Louis XIV 159
- love 57
- Lucas 38
- lune 61
- Mac Lane 303
- Maclaurin 163
- magic square 111
- Magna Grecia 2
- Mahavira 114
- Marcellus 98
- Marie Antoinette 166
- Mars 1, 142, 143
- Marx 53, 57
- mass nouns 30
- mathematical induction 61, 151, 179
- Matiyasevič 17, 123, 246, 257
- matrix 203
- Maupertuis 161
- Maxwell 211
- Mazur 243
- means 34
- Menaechmus 64
- Menelaus 104, 107
- Meno 63
- Mercator 154
- Mercury 1
- Mersenne 38, 145, 148
- mesopotamian 21, 122, 242
- M-homomorphism 304
- Miletus 29
- Mill 161
- Minkowski 212
- model 289
- monad 162
- monoid 296, 298, 300
- month 1
- moon 1, 104, 166
- Moscow Papyrus 7
- M-set 300
- Museum 83
- mysticism 39, 162
- Napier 139
- natural number 175, 179
- natural transformation 303, 307
- Nebuchadnezzar 21
- negative number 3, 113, 123, 126
- Nehemiah 28
- Nelson 101
- Newton 56, 84, 97, 148, 155
- Nicomachus 108
- Nim 12
- Nizam-ul-Mulk 119
- nodes 1, 297
- Noether 295
- nonconstructive 271, 272
- non-Euclidean 89
- norm 122, 204
- notation 125
- Omar I 109
- omega-complete 290
- omega-consistent 293
- Oresme 122
- Pacioli 126
- Paganini 39
- Pappus 107, 146
- papyrus 7
- paradox 55, 268
- Parallel Postulate 85, 89, 118, 203
- Parmenides 54
- Pascal 112, 150
- Pauli 215
- Peano 176, 179, 182
- Pell 113, 160, 237
- pentagon 42
- perfect 37, 86, 121, 122, 145, 164
- Philo of Alexandria 39
- Philo of Megara 266
- pi 9, 27, 77, 98, 112, 113, 114, 118, 155
- Pingala 112
- Planck 215
- planet 1