
Index

- abc* conjecture, 42
- Abramovich, D., 95
- Albanese variety, 84
 - quasi-, 84
- Algebraic group, 35, 64, 125
- Alphabet, 176
- Automatic number, 182
- Automatic sequence, 182
- Baker, A., 18, 116
- Beukers, F., 28
- Big divisor, 72, 117
- Bilu, Yu., 116
- Bombieri, E., 18, 28
- Cartan, H., 45
- Cartan's conjecture, 45
- Complexity function, 178
- Degenerate modulus, 40
- Dirichlet, J. L., 19
- Dirichlet's lemma, 10
- Divisor
 - big, 72, 117
 - nef, 72
- Divisor at infinity, 50
- d*th-root conjecture, 142
- Dyson, F., 18
- Equation
 - norm-form, 39
 - Pell's, 9, 12
 - S*-unit, 32
 - Thue, 23
- Equidistribution principle, 11
- Euclid algorithm, 4
- Evertse, J.-H., 28, 32
- Exponential polynomial, 120
- Faltings, G., 14, 70
- Fibonacci sequence, 119, 153
- Finite automata, 181
- Gelfond, A. O., 18
- Generating function, 119
- Genus, 60
- Harris, J., 95
- Hasse principle, 14
- Heath-Brown, D. R., 118
- Height, 19
- Hermite, C., 18
- Integral points, 14, 37, 49
- Jacobian variety, 64
- Kronecker, L., 21
- Lang's conjecture, 70
- Laurent, M., 70
- Linear recurrence, 119
- Liouville, J., 14
- Liouville numbers, 172
- Logarithmic singularities, 84
- Losert's equation, 170
- Mahler's theorem, 154
- Markov number, 157
- Markov triples, 157
- Markov's equation, 157
- Markov's surface, 159
- Mordell conjecture, 14
- Multiplicative algebraic group, 35
- Nef divisor, 72
- Non-degenerate solution, 32, 33
- Normal number, 179
- Northcott's theorem, 21
- Order of a recurrence, 119

198

Index

- Palindromic, 186
- Pell's equation, 9, 12
- Pila, J., 118
- Pisot number, 154
- Pisot, C., 126
- Place, 19
- Pourchet, C., 126
- Power sum, 120
- Product formula, 19
- Quasi- S -integral, 49
- Quasi-integral, 49
- Recurrence
 - linear, 119, 120
 - non-degenerate, 120
 - order, 119
 - roots of, 120
 - simple, 120
- Repetition
 - long, 176
- Ridout's theorem, 22
- Ritt, J. F., 167
- Roth, K. F., 14, 19
- Rumely, R., 25
- Runge's method, 69
- S -integer, 20
- S -unit, 20
 - equation, 25, 32
- Schlickewei, H.-P., 28, 30, 32
- Schmidt, W. M., 29
- Schmidt's subspace theorem, 30
- Siegel, C. L., 19, 26, 60
- Skolem–Mahler–Lech theorem, 43
- Sturmian word, 180
- Theorem
 - Chevalley–Weil, 53, 115
 - Hilbert's irreducibility theorem, 95
 - Lang, 22
 - Laurent, 36
 - Luroth, 61
 - Mahler, 22
 - Mordell–Weil, 64
 - Northcott, 21
 - Ridout, 22
 - Roth, 22
 - Roth generalized, 23
 - Schmidt, 29
 - Siegel, 60
 - Siegel, generalized, 62
 - Skolem–Mahler–Lech, 125
 - subspace I, 30
 - subspace II, 31
 - subspace III, 31
 - Thue, 22
 - weak Mordell–Weil, 55, 64
- Thue, A., 14, 19
- Tijdeman, R., 3
- Transcendental, 26
- Twisted form of a curve, 56
- Universal Hilbert set, 169
- Upper growth rate of periodic points, 139
- Valuation, 19
- van der Poorten, A. J., 32
- Vojta, P., 32, 70
- Vojta's conjecture, 117, 141, 152, 158, 161, 166, 168
- Weil, A., 21