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## Title word cross-reference

$(\log_x N)'$  [333].  $(x+1)^y - x^z = 1$  [845]. 0 [495, 1]. 1 [495, 1].  $1/p$  [511]. 10 [140]. 168 [538]. 2 [335]. **\$29.50** [792].  $2^n \cdot n!$  [1003].  $2 \times 2$  [26]. 3 [828, 583].  $4^n - 2$  [748].  $A$  [435].  $A^*A = B^*B$  [607].  $AB$  [620].  $BA$  [620].  $\binom{2n}{n}$  [260]. mod5 [982].  $C^1$  [832].  $\cos(2\pi/n)$  [322].  $d$  [844].  $dy/dx$  [449].  $e^x$  [859].  $f(x, y)$  [469].  $f - 1 = 1/f$  [852].  $\Gamma$  [582, 948].  $H$  [342].  $\int_{-\infty}^{+\infty} e^{ax(x-2b)} dx$  [854].  $\int_0^\infty \cos x^2 dx$ , [20].  $\int_0^\infty e^{-x^2} dx$  [20].  $\int_0^\infty \sin x^2 dx$  [20].  $k$  [933, 588].  $L^1(\mu) = L^1_{\text{loc}}(\mu)$  [184].  $L^4$  [21].  $L^p$  [256].  $L^p(\mu) \subseteq L^q(\nu)$  [145].  $l_2$  [579, 57].  $l_p$  [414].  $\ln k$  [831].  $M_{11}$  [524].  $M_{23}$  [524].  $M_n(\mathbf{Z})$  [269].  $n!$  [96].  $N$  [28, 871, 963, 592, 861, 247, 429, 530, 907]. NF [737].  $\omega(n)$  [82].  $p$  [619, 149, 694, 412].  $\mathbf{P}^2$  [357].  $p \equiv 1 \pmod{4}$  [34].  $\phi$  [674].  $\phi(30n+1)$  [947].  $\Phi_{pq}(X)$  [618].  $\pi$  [740, 684, 693, 950, 489].  $\pi^2$  [105].  $\pm 1$  [21].  $Q_c(x) = x^2 + c$  [399].  $\mathbf{R}$  [35, 226].  $\mathbf{R}^3$  [357].  $\mathbf{R}^n$  [62, 588].  $S_6$  [315].  $\sigma$  [19].  $\sqrt{-1}$  [995].  $\sqrt{2}$  [473].  $\sqrt{2} \times \sqrt{3} = \sqrt{6}$  [257].  $\sum_{n=0}^\infty 1/n!$  [619].  $\tan^{(k)} z$  [160].  $\wp$  [512].  $x$  [859].  $x/(\sin x)$  [755].  $x = f(x')$  [832].  $x^2 + y^m = z^{2n}$  [7].  $x^2 + y^m = z^{2n}$  [65].  $x^5 + ax + b$  [465].  $x^n = 1$  [235].  $Z^3$  [975].  $Z_2 \times Z_n$  [869].  $Z_{m_1} \times \cdots \times Z_{m_r}$  into  $Z_{k_1} \times \cdots \times Z_{k_s}$  [788].  $Z_n$  [983].  $\zeta(3)$  [41].  
**-adic** [619, 149]. **-body** [28]. **-dimensional** [844]. **-ellipses** [907]. **-function** [512, 582]. **-Game** [871, 19]. **-generator** [335]. **-gons** [530]. **-norm** [414]. **-polygons** [342].

-queens [429]. -smooth [828]. -solutions [832]. -sphere [583]. -Tuples [963].  
-volume [588].

101 [462, 408, 442]. 103xx [367]. 168pp [792]. 17th [644]. 1832 [792]. 1860s [351].

500th [448]. 51030a [442]. 53 [495].

8 [495]. 83g [70]. 85m [655]. 87e [68]. 89 [70]. 89c [67]. 89f [65]. 89g [66]. 89m [69].

90e [39]. 93 [68]. 93a [739]. 93c [382]. 93f [441]. 94 [67]. 95 [66, 65, 69]. 95c [462]. 95i [623]. 95k [442]. 96 [39]. 99 [441, 739, 382].

= [404].

**Abe** [655, 898, 718, 742, 516, 536]. **Abel** [518]. **Abelian** [336, 133, 645, 488]. **abstract** [605, 516, 536]. **accumulation** [613]. **acting** [372]. **Actions** [774]. **actuarial** [617]. **add** [540]. **Addendum** [65, 495, 446]. **Adding** [493, 33]. **Addition** [983, 1113]. **Additive** [1023]. **adic** [619, 149]. **Advanced** [8, 86, 107, 369, 368]. **aerodynamic** [902]. **African** [1084]. **After** [836]. **aftermath** [901]. **again** [334, 30]. **Age** [565]. **aid** [612]. **aided** [716]. **Aitken** [97]. **Alan** [877, 517]. **Alexander** [354]. **Algebra** [835, 496, 898, 711, 27, 173, 156, 193, 288, 78, 649, 353, 516, 536, 969, 969]. **Algebraic** [133, 655, 397]. **Algebras** [775, 98, 216]. **algorithm** [685, 258, 26, 489, 30]. **Algorithms** [736, 785, 479]. **Alice** [770]. **Almost** [799, 665]. **Also** [565, 392]. **alternating** [197]. **alternative** [36, 186]. **AM** [1112]. **amazing** [662, 584]. **Ambiguous** [64]. **Amer** [66, 67, 65, 441, 739, 462, 495, 382, 68, 69, 408, 442, 39, 70]. **American** [291]. **among** [126]. **Amusing** [755, 364]. **analogy** [193]. **Analysis** [1115, 810, 771, 876, 820, 767, 619, 183, 240, 847, 834, 848, 655].

**analytic** [127]. **analytical** [157]. **Andrew** [1115, 572, 698]. **Andrews** [39, 39]. **Angle** [918, 559, 377]. **anniversary** [280, 448]. **annulus** [181]. **Answer** [1003]. **Answers** [504]. **Anthropomorphic** [113]. **Aperiodic** [301]. **Apery** [1108]. **Appearance** [1107]. **Application** [765, 784, 452, 182, 151, 333]. **Applications** [868, 649, 714, 535]. **appreciation** [381]. **Approach** [721, 977, 281, 450, 143, 601, 288, 192, 150]. **Approximate** [701]. **approximately** [189]. **Approximation** [479, 980, 342, 117, 717, 155, 96, 890, 229]. **approximations** [896, 375]. **April** [673]. **Apropos** [441]. **Arbitrary** [981, 453, 344, 81]. **Archer** [317, 329, 337, 343, 351, 359]. **Archimedes** [796]. **Archimedian** [419]. **Arcs** [121]. **Area** [1097, 323, 573, 304]. **Areas** [719, 520, 634, 114, 342, 304]. **argument** [603]. **Arguments** [736]. **arising** [498]. **Aristotle** [829]. **Arithmetic** [1078, 256, 622, 507, 405, 543, 533, 54, 674, 506]. **arithmetic-geometric** [543, 533]. **arithmetic-mean** [405]. **Arrangements** [974, 451]. **Arthur** [209]. **aspect** [488]. **aspects** [215, 668]. **Assertions** [825]. **assistance** [718]. **associated** [114, 480]. **Association** [745]. **Astronomy** [758]. **asymptotic** [8, 86]. **atonal** [565]. **attracting** [686]. **Augustus** [976]. **authorship** [837]. **automata** [569, 24, 19]. **automorphisms** [315, 523]. **avatars** [711]. **average** [540, 304]. **Avoiding** [505, 993]. **Award** [379, 209, 572, 770, 290, 656, 17, 899]. **Awards** [1028]. **Away** [731]. **axiomatic** [281, 480]. **Axiomatization** [1010, 1068]. **axioms** [900, 645]. **axis** [35, 344].

**B** [462, 382, 836, 70, 319]. **Bôcher** [207]. **Babylonian** [258]. **Back** [939, 971, 998, 1029, 1057, 1086, 1118, 801]. **Baire** [168]. **ball** [596]. **balloon** [461]. **ballot** [165]. **balls** [651]. **Banach** [685, 697].

**Banchoff** [442]. **Barbeau** [836]. **Baroque** [565]. **Barrow** [1116]. **Barrow-Green** [1116]. **base** [137]. **baseball** [643]. **based** [90]. **Basel** [623]. **Bases** [858, 1023, 638, 841]. **basis** [578]. **Baxter** [39]. **be** [641, 228, 888, 394, 752]. **Beauzamy** [455]. **became** [417]. **Beckman** [730]. **Beckman-Quarles** [730]. **Beeblebrox** [739, 231]. **beginners** [371]. **behaviour** [157]. **Behind** [878, 437]. **Berlin** [337]. **Bernoulli** [276, 154, 31, 460]. **Bernstein** [980]. **Bessel** [205]. **best** [187]. **Beta** [1107]. **Betting** [867]. **between** [590, 1081, 362, 559, 620, 430, 82, 661, 40, 503]. **Beverly** [850]. **Beyond** [775]. **Bicycle** [794]. **Bieberbach** [908, 650]. **big** [298]. **Bill** [673]. **Billiards** [244, 714]. **Binary** [933, 174, 10, 14, 278, 511, 239]. **Binet** [905]. **Binomial** [964, 564, 79, 8, 11, 86, 15, 254, 548]. **bipartite** [419, 661]. **Birkhäuser** [792, 623]. **birth** [898, 648]. **Birthdates** [746]. **birthday** [61]. **bisection** [4, 67]. **bisector** [377]. **Bisectors** [338]. **bitangent** [18]. **Blatter** [1115]. **Block** [1095]. **Blows** [1090]. **Body** [1116, 28]. **Bombieri** [455]. **Bonnet** [606]. **Book** [1115, 996, 744, 995, 937, 1116, 1055, 1026, 1084, 936, 968, 969, 835]. **Boolean** [98, 216]. **Bored** [700]. **Borel** [127]. **Borromean** [144, 350]. **Borsuk** [741]. **Boundary** [876]. **Bounded** [1002, 218]. **bounds** [392]. **Box** [180, 1115]. **Box-spline** [180]. **boxes** [475]. **brachistochrone** [501, 586]. **Brain** [1026, 231, 739]. **Brainteasers** [836]. **Brams** [877]. **branches** [107, 369, 368]. **Branching** [174]. **Bredon** [781]. **breezes** [526]. **Bricklayer** [773]. **Bricklaying** [302]. **bridges** [890]. **Brouwer** [741]. **Bruce** [1026]. **bubbles** [402]. **Buffon** [446, 422, 383]. **Building** [669]. **Bull** [765]. **Bunyakowski** [73]. **Burnside** [194, 843]. **bursts** [132]. **Burtin** [917]. **Butterfly** [222, 857].

**C** [1115, 462, 382, 969]. **Cake** [877, 471, 685]. **Cake-Cutting** [877]. **Cakes** [778]. **Calculating** [476, 255, 611]. **Calculus** [762, 727, 1002, 1060, 726, 724, 848, 733, 1033, 883, 252, 689, 714, 436, 457, 649, 672, 671, 392]. **Calinger** [687]. **Cam** [375]. **cameras** [839]. **Cameron** [969]. **campanological** [906]. **Can** [752, 619, 394]. **cannot** [641]. **canonical** [594]. **Cantor** [868, 138, 447, 430, 853, 942, 911]. **Cantor-type** [911]. **Cantwell** [850]. **Carathéodory** [400, 115]. **cards** [77]. **Care** [994]. **Careers** [698]. **Carlyle** [119]. **Carries** [662]. **Cartwright** [640]. **Carus** [901]. **Case** [976, 642, 240, 669, 529]. **cases** [157]. **casino** [470]. **Casti** [888]. **cat** [251]. **Catalan** [1094, 614, 748]. **catches** [643]. **Categories** [757]. **catenoid** [90]. **Cattle** [796]. **Cauchy** [73, 718, 136, 150, 562]. **Cauchy-Bunyakowski-Schwarz** [73]. **Cayley** [98, 870, 204, 169, 983]. **ceiling** [77]. **celebration** [280]. **Celestial** [708, 648]. **cellular** [569, 19]. **Center** [1083, 990]. **centers** [692]. **central** [517]. **century** [436, 457]. **Certain** [818, 198, 742, 81]. **chain** [403]. **challenge** [110]. **champagne** [644]. **Chan** [1115]. **Change** [1002, 973, 844]. **Chaos** [1034, 424, 942, 232, 509, 219, 546, 502, 625, 690, 404]. **Chaotic** [332, 132, 301, 157]. **character** [58]. **Characteristic** [919, 1091, 574]. **Characteristics** [864]. **Characterization** [465, 138, 133, 77, 303, 168, 22]. **Characterizations** [932, 413]. **Characterizing** [681]. **Charles** [1115, 379, 290, 656, 572, 770, 899, 612]. **Charting** [583]. **Chatters** [969]. **Chebychev** [502, 341]. **Chebyshev** [960, 191]. **chemistry** [173]. **Chernyak** [836]. **Chessboard** [866, 482, 591]. **Chicken** [836]. **Choice** [725]. **Christian** [1115]. **Christmas** [166]. **Chu** [455]. **Chui** [1115]. **Circle** [799, 390, 109, 199, 22, 520, 355]. **Circles** [1081, 688, 119, 621, 144, 360, 153].

**circulants** [216]. **circular** [406, 442]. **Circumscribed** [153]. **Clarke** [802]. **class** [499, 467, 134]. **Classes** [864, 803, 493, 691, 141, 514]. **Classical** [565, 848, 847]. **classification** [213]. **classifications** [364]. **Clinton** [673]. **Closed** [946]. **Closed-Form** [946]. **Cluster** [894]. **Codes** [746]. **Coefficient** [951, 564, 8, 11, 86, 15]. **coefficients** [79, 206, 21, 179, 548]. **coins** [282]. **Colaw** [291]. **collaboration** [640]. **Color** [673, 1055, 515]. **colorful** [666]. **Coloring** [68, 3, 1065, 162, 538]. **COMAP** [768]. **combinations** [506]. **combinatorial** [227]. **combinatorics** [662, 570]. **come** [385]. **Comment** [462, 408, 39, 663]. **Commentary** [672]. **Common** [1048, 541, 695, 122, 529]. **Commutative** [969, 43]. **Commuting** [1048, 1095]. **Commuting-Block** [1095]. **compact** [133]. **compactness** [221]. **Competition** [728, 856, 1064]. **competitive** [456]. **complement** [354]. **complementary** [559]. **complements** [122]. **complete** [830, 833, 661, 458]. **Complex** [834, 1021, 865, 464, 132, 270, 171, 137, 28]. **Complication** [1034]. **Composite** [1036]. **compositions** [106, 250]. **comprehension** [516, 536]. **compression** [328]. **Computation** [882, 1120]. **Computational** [820, 89]. **computations** [558, 660]. **Computer** [774, 645, 716, 702]. **computer-aided** [716]. **Computing** [1084]. **concave** [832]. **concept** [605]. **Conceptual** [757, 718]. **Concerned** [752]. **concerning** [537, 504, 236]. **concise** [578]. **Concurrent** [1049]. **condition** [62, 228, 677]. **Conditional** [1004]. **cone** [478]. **cones** [637]. **confidence** [72]. **configurations** [316]. **conflict** [657]. **conflict-free** [657]. **Confronting** [753]. **Congruence** [754, 443, 982, 493, 694]. **Congruences** [514]. **Congruent** [1081, 600, 360]. **congruential** [223]. **Conics** [855, 114]. **Conjecture** [782, 816, 277, 567, 908, 481, 22, 666, 614, 319, 584, 673]. **conjugacies** [891]. **Conjugacy** [803, 514]. **Connected** [929, 659, 1077, 56]. **Connections** [240]. **consecutive** [411]. **Constance** [887]. **Constant** [951, 1108, 948, 454, 321, 283, 297, 521]. **constants** [1120]. **Constrained** [1050, 477, 346, 553]. **Construction** [1066, 217, 741, 532]. **constructions** [119]. **Constructivism** [937]. **contained** [506]. **containing** [464]. **continental** [689]. **Continued** [219, 502, 950, 111, 83, 124, 897]. **continuity** [196, 681]. **Continuous** [56, 151, 980, 454, 201, 686]. **contour** [854, 171]. **contraction** [151]. **Control** [1034, 1031, 1061]. **Controllability** [1031]. **converge** [619]. **Convergence** [186, 1004, 321, 178, 413, 263]. **Convergence-preserving** [186]. **Convergent** [935]. **Converse** [872, 750, 949, 599, 148, 562]. **Converses** [234]. **Convex** [719, 880, 832, 571]. **Convexity** [87, 1082, 787]. **Convolution** [1022]. **Conway** [744, 941, 110, 92]. **corner** [30]. **Coronas** [804]. **correct** [684]. **Correction** [739, 382]. **Correlated** [962]. **Cosine** [539]. **Count** [498]. **Count-wheels** [498]. **Countable** [723, 335]. **counterexample** [63, 25, 384]. **Counting** [305, 821, 975, 423, 680]. **Course** [969]. **Covered** [930]. **covering** [276, 177, 277]. **Covers** [723, 5, 66, 236]. **Cramer** [1076]. **Creates** [889]. **credit** [470]. **criterion** [635, 116, 272, 40]. **critical** [485, 305, 346, 477]. **Cross** [453, 190, 283]. **crossing** [661, 458]. **cryptography** [352]. **crystallographic** [650]. **cube** [271, 315]. **cubes** [311]. **Cubic** [385]. **Cup** [1054]. **curiosity** [333]. **curious** [423]. **currencies** [373, 408]. **current** [617]. **Curtis** [808]. **Curvature** [765, 91, 1063, 297]. **curve** [544, 121, 40]. **Curves** [521, 1063, 406, 62, 625, 442, 566, 554].

**Cutting** [778, 877, 685]. **Cycle** [773]. **cyclic** [288, 247]. **cyclotomic** [676, 618].

**D** [743, 441, 68, 877, 408, 807, 794]. **Damped** [1034]. **Dan** [794]. **dark** [102]. **Data** [328, 150]. **dating** [657]. **Daubechies** [327]. **David** [731, 743]. **Day** [673]. **days** [329]. **dead** [689]. **Deadly** [882]. **Deborah** [656]. **decimal** [347, 426]. **Decision** [909, 352]. **decline** [359]. **Decomposition** [78, 24, 403, 577, 439]. **Dedekind** [951, 257]. **deducible** [432]. **Defining** [1094]. **definite** [116]. **definition** [232, 546, 449, 690]. **Degenerate** [722]. **Dégot** [455]. **degree** [518]. **Dehaene** [889]. **dense** [64]. **Densest** [360]. **Denton** [792]. **dependence** [902]. **Depends** [1063]. **deranged** [12, 16]. **Derangements** [166]. **Derek** [849]. **derivation** [75, 96, 551]. **Derivative** [797, 472, 1037, 45, 115]. **Derivatives** [857, 215, 602]. **Descartes** [815, 1066, 875]. **Descent** [799]. **descents** [418]. **description** [157]. **Design** [1084]. **designer** [850]. **desk** [509]. **Determinant** [1021]. **determinantal** [666]. **Determinants** [495, 1095, 1, 484, 601]. **determination** [208]. **determine** [507]. **Devaney** [232, 546]. **development** [623, 696, 718]. **developments** [841]. **deviations** [717]. **Devlin** [875]. **diagonalizability** [60]. **Diagonalizable** [735]. **Diagonalization** [43]. **Diagonalize** [866]. **diagram** [364]. **Diameters** [812]. **dice** [915, 410]. **Dickson** [1001]. **Did** [794, 508, 385]. **Difference** [732, 654, 430]. **Differences** [934, 916]. **differentiable** [151, 201]. **Differential** [850, 811, 806, 570]. **differentiate** [175]. **Differentiating** [604]. **Differentiation** [919, 189, 139]. **digit** [452, 500]. **digital** [192]. **digits** [684, 489]. **Digraphs** [1077]. **Dilemma** [233]. **Dilworth** [403]. **dimension** [453, 573]. **Dimensional** [772, 778, 844]. **Dimensions** [974, 818, 592, 218, 742]. **Dinitz** [584]. **Diophantine** [655, 65, 293, 7, 845]. **Direct** [741]. **Directions** [981, 244]. **Dirichlet** [432, 1062, 42, 356]. **Disc** [1035, 374]. **Discontinuous** [1109]. **discovered** [575]. **Discovering** [743, 709]. **Discovery** [776, 812]. **Discrete** [730, 251, 416]. **discriminant** [635]. **discussion** [186]. **disk** [42]. **Disks** [129, 930, 591]. **Dispute** [877]. **disputed** [837]. **Dissections** [786]. **Dissertation** [952]. **Distance** [167, 1063, 1065, 907]. **distant** [842]. **distinct** [493]. **Distinguish** [818, 742]. **Distinguished** [17, 379, 572, 770, 290, 209, 656, 899]. **Distributed** [1094, 780]. **distribution** [124, 150]. **divergence** [651, 413]. **Diversions** [836]. **Divide** [963]. **Divisibility** [1079, 279]. **Division** [877, 775, 1092, 471]. **divisor** [695]. **Divisors** [1025, 54, 541, 503]. **Dixon** [136]. **Dmitri** [688]. **DNA** [609]. **Do** [727, 435, 752, 252, 702]. **Does** [619, 852, 900, 507, 742, 818, 607]. **Doing** [785]. **Domains** [719, 275, 665]. **Don't** [979, 801, 1090]. **Doob** [761]. **door** [911]. **dot** [437]. **Double** [801]. **Down** [484, 84]. **Dr** [379, 290, 572, 770, 899]. **Dr.** [209, 656]. **drag** [902]. **dragging** [358]. **dream** [574]. **drops** [418]. **Drums** [483]. **Dual** [825, 217]. **Duality** [1031]. **dynamical** [77]. **Dynamics** [772, 132, 170]. **Dynkin** [364]. **E.** [807, 767]. **E3062** [366]. **E3267** [6, 310]. **E3303** [10, 14]. **E3309** [11, 15]. **E3335** [12, 16]. **E3411** [106, 250]. **E3415** [289, 118]. **E3429** [108, 200]. **E3463** [109, 199]. **Early** [758, 715, 170]. **Easy** [1110]. **Economics** [820]. **Ed** [836]. **edited** [898, 698, 687, 863, 794]. **edition** [836]. **editor** [50, 824, 30]. **editorial** [718]. **editors** [284]. **Education** [1032, 752]. **Effect** [952]. **Effects** [1060]. **Eglash** [1084]. **Ehrenpreis** [159]. **Ehrhart** [951]. **eiconal** [487]. **eigenvalues** [464, 23, 26]. **Eigenvector**

[1048]. **eigenvectors** [26]. **Eighth** [864, 856]. **eighties** [91]. **eikonal** [487]. **Einstein** [382, 243]. **elastic** [576]. **electricity** [508]. **Elegant** [759, 950]. **Elementary** [289, 943, 325, 817, 118, 771, 6, 12, 10, 11, 106, 16, 14, 15, 108, 109, 200, 199, 310, 440, 250, 20, 883, 524, 416, 143, 444, 78, 350, 308, 159, 28, 905, 646, 245, 150]. **Elements** [963, 495, 1]. **Elimination** [784]. **Ellipse** [1054, 393, 545]. **ellipses** [907]. **Ellipsoids** [1062]. **Elliptic** [554, 544, 249]. **Elyadi** [732]. **embeddable** [357]. **Embedding** [335, 222]. **Emerging** [1088]. **Empty** [1093]. **enclose** [634]. **end** [689]. **Endnotes** [824]. **Energy** [736]. **Engineering** [780]. **Engineers** [1115]. **enigmatic** [903]. **enough** [48, 481]. **Enrico** [612]. **Enrique** [876]. **Entire** [561, 202, 487]. **envelope** [407]. **envy** [471]. **envy-free** [471]. **Equal** [679, 161, 323]. **equality** [184]. **Equation** [811, 1080, 845, 7, 65, 205, 487, 420, 204, 150]. **Equations** [759, 1010, 1068, 806, 880, 75, 385, 553, 518, 81, 850, 732]. **Equidissections** [610]. **equilateral** [360]. **equivalent** [475]. **Erdos** [1026, 287, 782, 816, 653, 1026]. **ergodic** [203, 58]. **Ernest** [937]. **Errata** [66, 67, 68, 69, 70]. **Erratum** [442]. **essay** [508]. **essays** [589]. **Essentially** [1109]. **estimates** [46]. **Euclidean** [701, 266, 665, 598, 30]. **Euler** [462, 432, 943, 392, 321, 380, 395, 462, 574, 948, 376, 663, 674, 593]. **Euler-Gergonne-Soddy** [593]. **Eulerian** [1022]. **evaluating** [854]. **evaluations** [20]. **Évariste** [792]. **eversion** [478]. **Every** [388, 454, 555, 34]. **Everyday** [709]. **evidence** [609]. **Evolution** [696, 718, 952, 766, 790, 742, 496, 463, 378, 571]. **exact** [75, 5, 66, 276, 558]. **Examination** [763, 385]. **Example** [817, 1009, 275, 298]. **Examples** [5, 66]. **Exceptional** [874]. **exchange** [505]. **excursion** [911]. **Exercise** [1051, 212]. **Existence** [913, 830, 858, 377, 628]. **expansion** [522, 8, 86, 511]. **Expansions** [933]. **Experience** [688]. **Experimental** [1088]. **Experimentation** [481]. **explanation** [345]. **explicit** [695]. **exploding** [132]. **Exploratory** [721]. **Exploring** [501]. **exponential** [132, 551]. **Exponentiation** [474]. **exponents** [895]. **exposition** [221, 583]. **expository** [589]. **expressible** [411, 388]. **Expressing** [636]. **expressions** [660, 438]. **extended** [37]. **Extending** [35]. **Extension** [981, 45]. **extensions** [52, 94, 288, 60]. **extrema** [469].

**F.** [757]. **Fabian** [633]. **Factorial** [861]. **Factoring** [861]. **factorization** [275, 440]. **Fail** [872]. **fails** [579]. **Fair** [877, 1092]. **fall** [490, 829]. **Family** [772]. **Farey** [912]. **Farkas** [885]. **Farmer** [743]. **Fast** [793, 342, 540]. **Faster** [1093, 174]. **favorite** [544]. **Federalist** [837]. **Feedback** [1061]. **Fermat** [673, 1005, 370, 855, 895]. **few** [589]. **Fibonacci** [912, 97, 541, 535]. **Fibonacci-like** [541]. **Field** [1010, 1068, 777]. **fields** [830, 266, 35, 676, 344, 612]. **fifth** [280, 518]. **Fifty** [728, 231, 739, 856, 1064]. **Fifty-Eighth** [856]. **fifty-ninth** [231, 739, 1064]. **Fifty-Seventh** [728]. **figures** [210]. **filled** [625]. **filling** [121]. **Finance** [820]. **Financial** [810]. **Find** [990, 485, 573]. **Finding** [55, 152, 26, 695]. **Finite** [858, 777, 883, 177, 638, 24, 235, 140, 242, 104, 112, 55, 488]. **First** [727, 825, 757, 134, 436, 457, 633]. **First-class** [134]. **fit** [187]. **five** [647]. **Fixed** [811, 374, 111, 686]. **fixing** [890]. **flashlights** [598]. **flatness** [62]. **float** [131]. **floor** [77]. **fluxions** [689]. **focusing** [393]. **folding** [491, 585, 530]. **Fomin** [688]. **Fool** [673]. **Football** [525]. **Force** [808, 292]. **Forced** [1034]. **forces** [372]. **forcing** [336, 332]. **Ford** [1028]. **Form** [946, 730, 302, 143, 594, 553]. **forms**

[636, 239]. **Formula** [740, 943, 975, 1113, 307, 427, 512, 844, 467, 38, 695, 254, 905]. **Foucault** [519]. **Four** [1055, 480, 307, 458, 560, 673]. **Four-Color** [1055]. **four-vertex** [560]. **Fourier** [876, 793, 590, 452, 240, 539, 409, 784]. **Fourier-Motzkin** [784]. **fractal** [137]. **Fractal** [1084, 838]. **Fraction** [950, 111]. **Fractional** [438, 883]. **fractions** [135, 219, 502, 347, 83, 426, 124, 897]. **Frame** [379]. **France** [343]. **Francois** [808]. **Frank** [733]. **fraud** [253]. **Fréchet** [400]. **Fred** [584]. **Free** [576, 774, 879, 471, 470, 657]. **French** [936]. **Fresh** [526]. **friend** [604]. **Fritsch** [1055]. **Frobenius** [235]. **Front** [940, 972, 999, 1030, 1058, 1087, 1119]. **Fubini** [309]. **Function** [1036, 766, 790, 1019, 1107, 627, 289, 454, 138, 512, 118, 507, 564, 450, 896, 107, 369, 368, 201, 674, 582, 905, 399]. **Functional** [75, 183]. **functionals** [908]. **Functions** [634, 840, 929, 1052, 1109, 980, 1113, 703, 626, 561, 652, 56, 205, 914, 286, 603, 77, 838, 167, 202, 218, 189, 151, 195, 206, 141, 134, 186, 529, 264, 712]. **Fundamental** [1031, 1061, 353, 488]. **Further** [978].

**G** [862, 462, 39]. **G.** [767]. **gadfly** [164]. **Gale** [731, 497, 595]. **Gale-Ryser** [595]. **Galileo** [799]. **Galois** [792, 288, 25, 371]. **Galvin** [584]. **Game** [871, 731, 77, 881, 324, 274, 525, 6, 587, 310, 19]. **Games** [921, 181]. **gamma** [627, 450, 107, 369, 368, 905]. **Gandt** [808]. **Gardner** [836]. **Gauss** [606]. **Gaussian** [798, 895]. **Gear** [83]. **gears** [419]. **general** [568, 677]. **Generalization** [855, 706, 227, 635, 223, 376, 584]. **Generalizations** [855, 529]. **Generalized** [721, 787, 797, 777, 1037, 274, 553, 107, 369, 368, 588, 211]. **Generating** [542, 883]. **generation** [123]. **generator** [335]. **Generically** [872]. **genesis** [605]. **Genkin** [688]. **geometer** [462]. **Geometric** [627, 762, 622, 568, 59, 601, 405, 543, 533, 80, 458]. **geometric-mean** [405]. **geometrical** [695]. **geometries** [100]. **Geometry** [808, 519, 851, 1035, 406, 655, 88, 490, 839, 89, 76, 442, 318, 510, 417, 781]. **Georg** [447]. **George** [903, 508]. **Gerda** [1055]. **Gergonne** [593]. **Germain** [384]. **German** [718, 516, 536]. **Germany** [329]. **Gerstein** [848]. **Giants** [265]. **Gibbs** [117]. **Giblin** [442]. **Gilbert** [743]. **Gillman** [899]. **Gin** [379, 290, 656, 572, 899, 770]. **Giuga** [567]. **given** [916]. **gives** [413]. **Glance** [751]. **Gleason** [572]. **Glen** [781]. **Glimpses** [655]. **globally** [686]. **GM** [1112]. **Go** [794]. **Golay** [642]. **Goldbach** [269]. **Golden** [853, 909]. **gons** [530]. **González** [876]. **González-Velasco** [876]. **Good** [801, 749, 479]. **Goodbye** [875]. **Göttingen** [337]. **Gottschalk** [1007]. **Grade** [864]. **Grant** [718]. **granular** [372]. **Graph** [324, 549, 833, 364, 458]. **Graphical** [776]. **graphics** [187]. **Graphs** [813, 56, 419, 661, 217]. **Gravity** [1083]. **Great** [976]. **greatest** [541, 695]. **Greed** [48]. **Green** [903, 1116, 508]. **grid** [682]. **Grossman** [708]. **Group** [1039, 869, 52, 247, 538, 547, 514, 633]. **Groups** [858, 879, 638, 216, 524, 133, 335, 891, 235, 542, 242, 645, 55, 488, 92, 650]. **grow** [174]. **Growth** [1006]. **Grünbaum** [462]. **Guide** [743]. **Gung** [379, 290, 572, 770, 656, 899]. **Guy** [744].

**H** [68]. **H.** [1005]. **Hadamard** [893]. **Hadwiger** [277]. **Haimo** [656]. **Hairer** [767]. **Hajarnavis** [969]. **Half** [866, 436, 457]. **Half-Chessboard** [866]. **Halley** [510, 865]. **Halmos** [466, 835]. **Hamilton** [870, 204]. **Handbook** [862]. **Hanging** [763]. **Hanoi** [431, 246]. **Hard** [1110, 800, 479]. **Hardy** [718, 319]. **Harm** [727]. **Harmonic** [1052, 883, 652, 603, 76]. **Harmony** [1092]. **Hedlund** [1007]. **Hendrik** [518]. **Henkin** [17]. **her** [391]. **Hereditary** [691]. **Hermite** [302]. **Heron**

- [658]. **Hersh** [937]. **heuristic** [319]. **Hex** [181]. **hexagon** [361]. **hexahedra** [475]. **High** [778, 253, 300]. **High-Dimensional** [778]. **Higham** [862]. **higher** [218]. **Hijab** [848]. **Hilbert** [654, 578, 416, 172, 308, 644]. **Hilton** [849]. **Hipparchus** [683]. **Hirsch** [807]. **Hirst** [317, 329, 337, 343, 351, 359]. **Historical** [687, 696, 718]. **History** [655, 1001, 490, 847, 767]. **Hoffman** [1026]. **Hohn** [850]. **Holder** [980, 494]. **holes** [355]. **Holton** [849]. **Homomorphisms** [788]. **Hoop** [1000, 664]. **Hoops** [979]. **Hop** [979]. **Hopping** [979, 1000, 664]. **Horn** [646]. **horology** [498]. **Horton** [744]. **Hough** [683]. **hourglass** [372]. **Howard** [1115]. **Hu** [379, 290, 572, 770, 656, 899]. **Hubert** [850]. **Hugh** [758]. **human** [677, 645]. **hundred** [630]. **Hunting** [857]. **Hypatia** [391].
- Hyperbolic** [318, 1035, 120, 538, 249, 417, 529]. **Hyperbolicity** [942]. **hyperboloid** [318]. **hypergenerating** [289, 118]. **hypergeometric** [420]. **hyperplanes** [837]. **Hypocycloids** [124]. **hypothesis** [398].
- Ian** [968]. **icosahedron** [575]. **Idea** [878]. **Ideal** [817, 665]. **Ideals** [749, 49]. **Ideas** [851]. **Identities** [764, 13, 300, 453, 261, 39]. **Identity** [991, 776, 1077, 1024, 993, 260, 366, 47, 326, 666, 386, 327, 455]. **II** [392, 329, 457, 718, 790, 818, 1061, 536]. **III** [337]. **Ilia** [688]. **illuminable** [555]. **Illustrated** [584]. **Imaginary** [995]. **Impartial** [881]. **implicative** [645]. **Implies** [741, 647, 455]. **impossibility** [686]. **impossible** [491, 532, 585, 144]. **Improving** [204, 229]. **Incenters** [1106]. **Incircles** [1096]. **including** [402]. **inclusion** [188, 145]. **Incommensurability** [812]. **incongruent** [5, 66]. **Indecomposable** [961]. **indeed** [904]. **independence** [901]. **independent** [107, 369, 368]. **index** [346]. **India** [745]. **Indigenous** [1084]. **Induction** [800]. **inductive** [533]. **Inequalities** [114, 1020, 713, 59, 163]. **Inequality** [1114, 965, 920, 622, 220, 325, 73, 675, 188, 405, 11, 15, 543, 494, 533, 345, 308, 425, 552, 570, 375, 191, 53, 415, 562, 455]. **inequivalent** [52]. **inference** [80]. **Infinite** [1004, 5, 66, 177, 255, 658, 628, 440, 236, 245, 619]. **infinitesimal** [696, 718]. **infinitesimals** [641]. **infinity** [561, 996]. **influence** [689]. **influences** [436, 457]. **Information** [1117, 1115]. **Injective** [523]. **inner** [303]. **Input** [1061]. **Inscribed** [918, 520]. **Integer** [475, 307, 841, 895]. **integers** [581, 828, 613, 149, 182, 636, 397]. **Integrable** [1036, 195]. **Integral** [104, 748, 454, 392, 624, 275, 281, 171, 136, 81]. **Integrals** [973, 978, 883, 893, 844, 2, 195, 910, 712, 70, 707]. **integrate** [264]. **Integrating** [1067]. **Integration** [651, 687, 784, 854, 130, 349, 378]. **Interactive** [850]. **interior** [374]. **Intermediate** [1006, 208]. **international** [669]. **interpretation** [568, 171]. **Intersections** [719, 230]. **interval** [72]. **Intervals** [506, 101, 404]. **Intractable** [881].
- Introduction** [914, 370, 848, 757, 732, 170, 655, 969]. **Introductory** [969]. **invariant** [515, 95]. **Inverse** [891, 616, 670, 553, 206]. **inverse-similarity** [670]. **Inversion** [787]. **Invertible** [780, 678]. **Inverting** [654]. **Investing** [977]. **Involving** [1080, 1024, 47]. **irrational** [347, 426]. **Irrationality** [142, 859, 105, 693]. **Isogonal** [316]. **Isometries** [414, 531, 701, 94]. **Isoperimetric** [945]. **Isoptic** [22]. **issues** [480]. **Italian** [792]. **Italy** [343]. **Itenberg** [688]. **Iteration** [626]. **Itself** [1079, 799]. **IV** [343].
- J** [379, 1005, 995, 862, 495, 1055, 848, 877, 408, 669, 39, 969]. **J.** [640, 669]. **Jacobi** [307, 776, 897]. **Jacobson** [1009, 70]. **James** [1115]. **jazz** [565]. **Jean** [849, 850]. **jeep** [497]. **Jensen** [345]. **John**



- [744, 792, 850, 888, 291]. **Johnson** [863]. **Jones** [408]. **Jordan** [354, 577, 143, 40, 213]. **Jordan-Alexander** [354]. **Jordan-Schönflies** [213]. **Joseph** [794]. **Journeys** [1026]. **Joy** [708, 709]. **Jr.** [1115, 807]. **Juggling** [418]. **Julia** [887]. **June** [1116].
- Kac** [901]. **Kaluza** [697]. **Kantorovich** [552]. **Kaplansky** [721, 214]. **Keith** [875]. **Kelly** [272]. **Kempe** [779]. **Kepler** [205, 362]. **key** [352]. **Klamkin** [22]. **Knaster** [685]. **knight** [367]. **knockouts** [833]. **knot** [632]. **Knots** [743, 515]. **Know** [1090, 607, 435]. **Knuth** [441]. **Konhauser** [794]. **König** [222]. **Kotz** [863]. **Krantz** [862]. **Kreiss** [383]. **Kronecker** [522]. **Krylov** [878]. **Kummer** [420, 550, 413]. **Kuratowski** [40].
- L** [1115, 863, 888, 640]. **Lambert** [693]. **Lanczos** [797, 1037]. **Large** [1053, 230, 890, 296, 51, 717, 473, 127]. **Larry** [848]. **Lasker** [439]. **Last** [673, 867, 370, 895]. **late** [495]. **Latin** [699, 666, 169]. **lattice** [225]. **Laura** [792]. **Law** [951, 1002, 817, 473, 127]. **laws** [362]. **Lawvere** [757]. **Leading** [863]. **Leads** [721]. **Leaning** [996]. **Learning** [825, 726]. **Lebesgue** [748]. **Lecturing** [700]. **Left** [1001]. **Legacy** [759]. **Legendre** [786]. **Lehmer** [313, 68]. **Lemma** [721, 885, 773, 1092, 917, 194, 505, 147, 212]. **Lemoine** [119]. **length** [573]. **lengths** [377]. **Lengthy** [751]. **lenses** [249]. **Leon** [17]. **Leonard** [899]. **Lester** [1028]. **Letter** [50]. **Level** [777]. **Lexell** [918]. **L'Hôpital** [75, 130]. **Life** [697, 887, 709, 968]. **like** [541]. **Limit** [966, 992, 517]. **Lindemann** [36]. **Lindemann-Weierstrass** [36]. **line** [454, 187, 686]. **Linear** [735, 881, 173, 193, 835, 27, 117, 156, 288, 78, 649, 353]. **Linearization** [1061]. **Lines** [187, 259, 1049, 634]. **link** [40]. **links** [515].
- Liouville** [198, 148]. **Lite** [733]. **literal** [898]. **little** [298]. **Littlewood** [640, 319]. **Liu** [1115]. **Local** [1060, 469]. **logarithm** [312]. **Logarithmic** [1082, 254]. **logic** [182]. **logical** [716]. **Logistic** [942]. **London** [351]. **long** [680]. **look** [380, 462, 402, 663]. **looking** [917]. **Lost** [747]. **Loved** [1026]. **low** [204]. **low-rank** [204]. **lowbrows** [340]. **Lowell** [728, 856, 1064]. **Löwner** [206]. **Lucas** [37, 313, 223]. **Lucas-Lehmer** [313]. **Luxembourg** [623]. **Lynn** [209].
- M** [836]. **M.** [640, 22]. **Maclaurin** [689, 1111]. **Magic** [904, 27, 915, 156, 944, 401]. **Magical** [968]. **magnetism** [508]. **Major** [221, 692, 436, 457, 612]. **make** [838, 330]. **Makes** [976]. **making** [909]. **Malgrange** [159]. **Malgrange-Ehrenpreis** [159]. **Man** [1026]. **Mandelbrot** [912]. **Many** [684, 849, 711, 248, 388]. **map** [551]. **mapping** [251, 183, 103]. **mappings** [151, 686]. **Maps** [772, 942, 181, 434, 523]. **Marie** [850]. **Mark** [901]. **market** [272]. **Markov** [352]. **Marriage** [944]. **Marriages** [813]. **Martin** [836]. **marvelous** [389]. **Marvin** [291]. **Mascheroni** [444]. **master** [648]. **Match** [871]. **matching** [459]. **Matchings** [931]. **material** [372]. **Math** [66, 67, 65, 441, 739, 462, 495, 382, 68, 69, 408, 442, 39, 836, 70]. **Mathematica** [687, 820]. **Mathematical** [728, 849, 609, 862, 856, 1064, 848, 291, 1026, 836, 688, 769, 794, 642, 716, 623, 240, 362, 267, 640, 911, 498, 516, 536]. **Mathematician** [1032, 643, 903, 317, 329, 337, 343, 351, 359, 677, 936]. **Mathematicians** [402, 525, 902]. **Mathematics** [782, 1088, 734, 709, 822, 937, 842, 757, 952, 864, 615, 818, 976, 785, 752, 391, 623, 900, 606, 84, 565, 526, 463, 436, 457, 696, 718, 677, 557, 742, 565, 887, 698, 743, 937, 889, 768]. **Mathieu** [524]. **Matrices**

[1048, 1095, 1076, 749, 678, 185, 314, 197, 116, 577, 670, 123, 691, 534, 26, 95, 438, 551, 415]. **Matrix** [522, 1020, 866, 948, 464, 63, 662, 163, 843, 57, 331, 383]. **Matter** [939, 971, 998, 1029, 1057, 1086, 1118, 940, 972, 999, 1030, 1058, 1087, 1119]. **max** [94, 74, 365]. **max-min** [74]. **Maxima** [884]. **Maximization** [1050]. **maximum** [331]. **May** [872]. **Maze** [968]. **McDill** [850]. **McPeak** [793]. **Mean** [872, 920, 978, 1008, 622, 72, 188, 2, 405, 543, 533, 128, 672, 671, 70, 707, 750, 949]. **mean-geometric** [622]. **Means** [787, 81]. **measure** [428, 121]. **measures** [628]. **Mechanical** [851]. **mechanics** [648, 708]. **mechanisms** [558]. **medalist** [612]. **Medial** [1097, 932]. **medians** [658]. **Medium** [616]. **Mercedes** [632]. **Merton** [811]. **Method** [784, 4, 67, 499, 286, 695, 179, 510, 263, 584]. **Methods** [878, 865, 571]. **Metric** [722, 120, 94, 914]. **metric-preserving** [914]. **middle** [8, 86]. **Milin** [908]. **min** [74]. **Mind** [889]. **mini** [490, 589]. **mini-essays** [589]. **mini-history** [490]. **Minimal** [237, 90, 676, 322]. **minimalist** [565]. **minimization** [586]. **Minimum** [799, 907]. **Minkowski** [494]. **Minsk** [836]. **Mira** [421]. **Miranda** [705]. **mirror** [827]. **mirrors** [249, 849]. **Mixed** [920, 857, 405, 533]. **Mixed-Mean** [920]. **Mixing** [103]. **Mixtilinear** [1096]. **Mixtures** [224]. **Möbius** [348, 507]. **mod** [412]. **Model** [1035]. **Modeling** [810, 820]. **Models** [860, 100, 780]. **Modern** [1059, 724, 1084, 615]. **modified** [499, 258]. **Modular** [1039]. **modules** [667]. **Modulo** [754, 493, 694, 124]. **Moebius** [102]. **Mohr** [444]. **Mohr-Mascheroni** [444]. **moment** [178]. **Moments** [960]. **Monograph** [901]. **Monotonicity** [884]. **Monthly** [66, 67, 65, 441, 739, 563, 462, 495, 382, 68, 69, 408, 756, 442, 39, 70, 284, 291, 702]. **Moore** [499]. **Mordell** [287, 653]. **Morgan** [976, 733]. **Morphisms** [431]. **Mosaic** [769]. **Moscow** [655]. **most** [452]. **motion** [332, 553]. **Motivated** [978, 13, 39]. **Motzkin** [784]. **MR** [655, 66, 67, 65, 623, 441, 739, 462, 495, 382, 68, 69, 442, 39, 70]. **multidimensional** [492]. **Multiple** [158, 973, 712]. **multiplicative** [507]. **Multivariable** [1033]. **Multivision** [881]. **Musings** [54]. **My** [544, 1026]. **mylar** [461]. **N.** [743]. **Nahin** [995]. **Napierian** [312]. **Napoleon** [234]. **Nathaniel** [708]. **National** [1060]. **Nauka** [655]. **Need** [1090, 900, 807]. **Needham** [834]. **needle** [383]. **negative** [826]. **Negatively** [962]. **Nelson** [1065]. **Nested** [176]. **nets** [273]. **Neugebauer** [381]. **Never** [495]. **Newman** [720]. **Newton** [808, 382, 286, 689, 362, 261, 292, 648, 243, 865]. **Newtonian** [28]. **Nicholas** [862]. **Niels** [518]. **Nim** [191]. **ninth** [231, 739, 1064]. **No** [727, 66, 67, 65, 441, 739, 462, 382, 68, 69, 408, 442, 39, 70]. **Nobel** [557]. **nod** [392]. **Noether** [439]. **Non** [858, 1076, 777, 454, 826, 198, 841, 440, 598]. **non-constant** [454]. **Non-Euclidean** [598]. **Non-existence** [858]. **non-integer** [841]. **non-Liouville** [198]. **non-negative** [826]. **Non-Square** [1076]. **non-unique** [440]. **none** [619]. **Nonlinear** [1061]. **nonmeasurable** [226]. **nonnegativity** [433]. **nonperiodicity** [424]. **nonsplittable** [350]. **Nonstandard** [847]. **nontransitive** [410]. **nonunique** [275]. **Nonzero** [859]. **noodles** [446, 422]. **Norm** [163, 57, 414, 21, 455]. **norm-inequality** [455]. **normal** [476, 72, 302, 901]. **Norman** [863]. **norms** [63]. **notation** [441, 238]. **Note** [858, 978, 802, 860, 293, 152, 309, 675, 585, 685, 487, 136, 596, 426, 326, 707, 897]. **Notebook** [747]. **Notes** [717, 764, 729, 710, 730, 441, 238]. **Nothing** [886]. **novice** [459]. **nowhere** [151, 201]. **nowhere-differentiable** [151]. **Number** [946, 873, 137, 886, 814, 889, 164, 1006, 803,

1111, 788, 720, 307, 142, 558, 158, 182, 467, 388, 198, 514, 460, 458, 503]. **Numbers** [1094, 1001, 709, 961, 1022, 1026, 748, 296, 630, 276, 154, 262, 51, 31, 901, 447, 388, 97, 279, 473, 127, 64, 535, 661, 165, 744]. **numerators** [31]. **Numerical** [882].

**O** [1115, 290]. **Objects** [874]. **Observability** [1031]. **obvious** [194]. **occurrence** [165]. **oceans** [198]. **Odd** [401]. **ODE** [817]. **old** [604, 74, 434, 49, 890, 560]. **oldest** [448]. **Omar** [848]. **One** [772, 1110, 532, 607, 124, 34]. **One-Dimensional** [772]. **one-sentence** [34]. **Only** [1026]. **opaque** [271]. **Open** [1026]. **operation** [278]. **Operator** [735, 165]. **Operators** [787, 691, 81]. **Optimal** [274]. **optimization** [571]. **orbits** [301]. **Order** [509, 224, 247, 140, 538, 259, 514, 80, 81]. **order-restricted** [80]. **ordered** [830]. **Orderly** [373, 408]. **Ordinary** [806]. **origami** [491]. **Origin** [1063]. **orthogonal** [522, 670, 123, 146]. **oscillations** [890]. **oscillators** [76]. **oscillatory** [332]. **Other** [968, 132, 35]. **Otto** [381]. **our** [436, 457]. **outer** [315]. **Overview** [267].

**P** [442]. **Packability** [647]. **packings** [360]. **Paper** [1054, 491, 274, 585]. **paperfolding** [892]. **papers** [837]. **Parabolic** [249]. **Paradox** [763, 710, 407, 410]. **paradoxes** [463]. **Parallel** [833, 783]. **Parallelogram** [1097, 854]. **parallels** [576]. **Parameters** [1094]. **Parametric** [139]. **Part** [120, 818, 766, 790]. **Partial** [857, 811, 135]. **partials** [469]. **parties** [657]. **Partition** [982]. **partitioning** [268]. **Partitions** [723, 771, 668, 503]. **Pascal** [739, 37, 314, 231, 246, 361]. **Path** [799, 486]. **Pathological** [286]. **Paths** [801, 869]. **Patterns** [769]. **Paul** [995, 937, 1026, 782, 835]. **pay** [679]. **Pebbling** [482]. **pedal** [58, 103]. **Pedersen** [849]. **Pendulum** [1034, 332, 519]. **Percy** [612]. **Perfect** [931, 475]. **perimeter** [125]. **Period** [251]. **Periodic** [929, 244, 399]. **Periodicity** [650]. **Periods** [921, 992]. **permanent** [427]. **permanents** [166]. **permutahedron** [53]. **Permutations** [513, 111]. **Personalities** [863]. **Perspective** [724, 839]. **Peschke** [1055]. **Peter** [969, 849]. **Peters** [1115]. **Petsinis** [936]. **phenomenon** [117, 500]. **phi** [398]. **Philosophy** [937, 526]. **Physically** [978]. **Pi** [1040, 229]. **Picard** [202]. **pick** [182, 220, 512, 342, 295]. **Pick-type** [342]. **pieces** [600]. **piecewise** [406, 117, 442]. **piecewise-linear** [117]. **pigeonhole** [434, 214]. **pills** [108, 200]. **Pinhole** [839]. **Pizza** [398]. **Place** [785]. **planar** [419]. **planarity** [40]. **Plane** [974, 930, 454, 464, 445, 100, 140, 538, 128, 530, 294, 531]. **planes** [451]. **planet** [842]. **Platonic** [68, 3]. **Pleasures** [821]. **Plus** [1033]. **Plutarch** [814, 683]. **Poincaré** [705, 1035, 1116]. **Poincaré-Miranda** [705]. **Point** [811, 374, 346, 208, 458, 555]. **points** [485, 225, 613, 111, 305, 109, 199, 112, 686, 477, 399]. **Poisson** [75, 195, 375]. **Poker** [867]. **Polar** [304]. **Pollak** [290]. **Pólya** [574, 1051]. **Polygon** [786, 119, 600]. **Polygonal** [869, 555, 388]. **polygons** [244, 342, 520, 409, 341, 113]. **polyhedra** [380, 462, 663, 386]. **Polyhedron** [780, 784]. **polylogarithmic** [1120]. **Polynomial** [358, 1111, 880, 1113, 485, 568, 228, 618, 625, 21, 523, 322]. **Polynomials** [786, 960, 51, 776, 967, 980, 1067, 502, 305, 99, 363, 826, 472, 676, 433, 341, 306]. **Polytope** [631]. **Polytopes** [880, 631]. **Pompeiu** [320, 387]. **pools** [525]. **popular** [467]. **Porter** [743]. **Poset** [1079]. **Positive** [787, 116, 613, 121, 413]. **possible** [427, 490]. **Post** [352]. **Post-Markov** [352]. **Postcards** [365]. **posters** [85]. **Power** [699, 709, 590]. **Powers** [933, 581, 33, 604, 838, 163, 401]. **Practices** [768]. **precession** [521].

**precision** [253]. **prescribed** [377]. **present** [61]. **presents** [166]. **Preserve** [749]. **preserving** [914, 186]. **primality** [567]. **primary** [439]. **Prime** [704, 777, 296, 493, 630, 51, 54, 34, 720]. **Prime-producing** [704]. **Primer** [1115, 862, 902, 1115]. **Primes** [798, 751, 894, 527, 248, 285, 548, 636, 239, 504]. **Primitive** [975]. **Principal** [665, 713, 35, 344]. **Principia** [808]. **principle** [348, 603, 434]. **Principles** [768]. **prisoners** [679]. **Prize** [557]. **Pro** [725]. **Probabilistic** [682, 668]. **probabilities** [476]. **Probability** [871, 761, 558, 623, 628, 458, 448]. **Problem** [925, 924, 1062, 926, 616, 855, 945, 927, 279, 278, 367, 923, 835, 922, 928, 773, 1065, 769, 796, 289, 452, 271, 466, 227, 74, 118, 162, 18, 670, 629, 497, 501, 6, 172, 632, 366, 8, 12, 10, 11, 106, 86, 16, 14, 15, 47, 107, 108, 109, 200, 199, 369, 368, 320, 42, 310, 911, 644, 429, 28, 458, 907, 448, 250, 387, 236, 269, 383, 498, 150, 1116]. **Problems** [958, 987, 1075, 1072, 1105, 791, 805, 819, 1101, 1014, 1042, 731, 984, 1018, 1099, 699, 953, 1017, 1074, 1043, 1070, 1015, 1103, 1044, 1013, 986, 957, 1045, 954, 1100, 989, 756, 1098, 928, 988, 1011, 1047, 1102, 1071, 1073, 1069, 1046, 1041, 956, 1016, 1012, 959, 794, 985, 1104, 955, 352, 556, 563, 428, 479, 537, 702, 876]. **processes** [174]. **producing** [704]. **Product** [879, 453, 197, 303, 628]. **Product-Free** [879]. **Products** [1052, 1040, 1004, 522, 190, 893, 215, 161, 47, 513, 539, 245]. **program** [660]. **progress** [84]. **Progressions** [1078, 283, 674]. **Projecting** [981]. **projection** [631]. **projections** [654]. **projective** [839, 140]. **Proof** [754, 941, 982, 172, 405, 885, 789, 883, 720, 622, 13, 307, 287, 36, 194, 325, 222, 313, 578, 524, 273, 844, 354, 609, 403, 183, 363, 577, 389, 416, 444, 198, 653, 595, 693, 528, 586, 147, 155, 136, 494, 533, 356, 350, 22, 308, 349, 39, 159, 214, 319, 628, 905, 32, 906, 646, 361, 34, 584]. **Proofs** [785, 913, 848]. **properties** [627, 59, 245]. **Property** [919, 423, 374, 393, 279, 223, 323, 103]. **proportional** [634]. **protocol** [471]. **Prove** [782, 127]. **Proved** [799]. **Proving** [785, 830]. **public** [352]. **public-key** [352]. **punk** [565]. **Pure** [1032]. **pursuits** [682]. **Putnam** [728, 856, 1064, 485, 227]. **Puzzle** [1059, 431, 29]. **Puzzles** [836]. **pyramid** [29]. **Pythagorean** [158, 588, 1035].

**Quadratic** [1001, 729, 266, 636, 239, 32, 399]. **Quadratics** [527, 704]. **Quadrilateral** [1083]. **quantum** [173]. **Quarles** [730]. **quartic** [568]. **quasiperiodicity** [650]. **quaternion** [626]. **Quaternions** [775]. **queens** [429]. **Queenwood** [343]. **Question** [1003, 385]. **questions** [504]. **Quick** [870]. **quicker** [321]. **Quine** [737]. **quintics** [465]. **Quotients** [285, 504].

**R** [1028, 835, 39, 969]. **Rabinowitz** [794]. **Radicals** [745, 176]. **radius** [57]. **Ramanujan** [39, 13, 747, 340, 745, 754, 61, 764, 982, 326, 746]. **Random** [974, 592, 101, 967, 931, 44, 390, 278, 539, 294, 437]. **randomness** [608]. **rank** [204]. **Rankin** [906]. **ranks** [185, 534]. **rapid** [1120]. **Rates** [860]. **Ratio** [1082, 613, 283]. **Rational** [812, 859, 399, 244, 658, 594, 896, 123, 264]. **Rationals** [1039, 182]. **Ratios** [964]. **Ravi** [769]. **Raymond** [1115]. **Reading** [648, 580]. **Real** [771, 967, 491, 305, 670, 228]. **Really** [937, 313, 619]. **rearrangement** [53]. **reasoning** [716, 645]. **rebel** [639]. **Reciprocal** [991, 175]. **Reciprocity** [951, 1001, 32]. **rectangles** [339, 212]. **Rectangular** [678]. **rectilinear** [458]. **Recurrence** [1110, 966, 294, 12, 16, 537]. **Recurrent** [1019]. **recursive** [172]. **redefined** [840]. **Reflected** [1049]. **reflection** [827]. **Reflections** [849, 421, 827, 394, 372]. **Reform** [1060, 753, 1089, 752]. **Regions** [464].

**Regular** [858, 297, 660, 869, 638, 445, 341]. **regularity** [80]. **Reid** [887]. **related** [37, 466]. **relating** [514]. **relation** [216, 503]. **Relations** [1110, 82, 661]. **relationship** [362, 620]. **relatives** [277, 202]. **reliability** [609]. **Remainder** [46, 392, 38]. **remark** [72]. **Remarks** [738, 196]. **Remez** [325]. **reminiscences** [381]. **removal** [594]. **Rental** [1092]. **repeatedly** [175]. **Replacement** [860]. **Replication** [203]. **reply** [39]. **Representation** [755, 948, 41, 104]. **representations** [307, 293, 828]. **Representing** [79, 239, 527]. **reputation** [669]. **Require** [994]. **Research** [687, 642]. **Resistive** [616]. **Resnikoff** [1115]. **Resolution** [877]. **respectable** [417]. **respond** [462]. **response** [462]. **restricted** [80]. **result** [363]. **Resultant** [721]. **results** [37]. **Rethinking** [726, 671, 672]. **Return** [624]. **Reuben** [937]. **Reverend** [612]. **reverse** [425]. **reversing** [891]. **Review** [1115, 996, 995, 937, 1116, 1055, 1026, 1084, 936, 968, 969]. **Reviews** [697, 744, 698, 708, 743, 709, 781, 687, 732, 795, 809, 823, 938, 970, 997, 1027, 1056, 1085, 780, 768, 733, 688, 769, 767, 794, 793]. **revised** [836]. **Revisited** [815, 779, 1000, 1051, 684, 139, 129, 73, 74, 846, 97, 890, 439, 560]. **revolution** [576]. **Rewriteability** [242]. **Richard** [744, 793]. **Riemann** [624, 398, 183, 195, 952]. **Rigatelli** [792]. **rigor** [623, 672, 671]. **Ring** [788, 605, 269]. **rings** [843, 350, 474, 43, 440]. **rise** [490]. **road** [625]. **roads** [516, 536]. **Robert** [836]. **Rogers** [39, 13]. **role** [546, 463, 672, 671]. **Rolle** [270, 579, 492]. **Roman** [575, 697]. **Romantic** [565]. **Romberg** [349]. **Ron** [1084]. **Ronald** [687]. **Rook** [866]. **Room** [849]. **rooms** [555]. **root** [358, 4, 67]. **Rooted** [1024]. **Roots** [960, 967, 865, 896, 228, 412]. **rose** [125, 836]. **Rota** [666]. **Roth** [594]. **Rouché** [99]. **Round** [867, 854, 497]. **round-trip** [497]. **row** [231, 739]. **Rudin** [642]. **Rudolf** [1055]. **Rule** [815, 1066, 1076, 75, 130, 594, 909]. **Russian** [655, 688, 898]. **Ryser** [595]. **S** [1115, 1005, 22]. **Saber** [732]. **saddlepoint** [152]. **same** [483]. **sampler** [608]. **Samuel** [863]. **Sandra** [793]. **Scalable** [1115]. **scenes** [437]. **Schafer** [770]. **Schanuel** [757]. **Schechter** [1026]. **Scheduling** [657]. **Schönflies** [213]. **School** [785, 300]. **Schools** [807]. **Schröder** [683]. **Schur** [789]. **Schwarz** [220, 73, 212]. **Schwarz-Pick** [220]. **science** [617]. **sciences** [267, 862, 863]. **scientist** [639]. **Scientists** [1115]. **scissors** [274]. **sculptures** [85]. **Search** [774, 1026, 428, 140]. **Searching** [529]. **Secant** [1067, 472, 263]. **Second** [814, 825, 469]. **second-partials** [469]. **Secret** [968]. **secrets** [652]. **sections** [445]. **seeing** [283]. **seen** [641]. **Self** [580, 573, 217]. **self-dual** [217]. **Self-reading** [580]. **self-similarity** [573]. **Semigroups** [1006]. **semisimple** [667]. **Sense** [889]. **sensitive** [569]. **sentence** [34]. **Separable** [60]. **Separating** [837]. **Separation** [760, 306]. **Sequence** [1019, 642, 912, 110]. **Sequences** [296, 248, 423, 396, 97, 58, 54, 541, 537, 580, 680]. **Sequential** [268]. **Sergey** [688]. **Series** [762, 810, 831, 935, 883, 590, 135, 392, 253, 452, 255, 619, 154, 41, 240, 409, 413]. **Service** [379, 572, 770, 290, 209, 656, 657, 17, 899]. **Set** [868, 94, 699, 853, 658, 912, 916, 911, 668, 298]. **Sets** [929, 942, 613, 621, 336, 230, 430, 506]. **Seven** [882]. **Seventh** [728]. **seventy** [280]. **seventy-fifth** [280]. **Shannon** [587]. **shape** [461]. **Shapiro** [642]. **share** [677]. **sharing** [448]. **Sharkovsky** [599, 738]. **Sheer** [708]. **shells** [129]. **Shenitzer** [655, 898, 718, 742, 516, 536]. **Shephard** [462, 462]. **Sherman** [709]. **Short** [982, 720, 307, 287, 363, 444, 653, 486, 349, 680]. **Shorter** [754]. **shortest** [72, 486]. **Should**

[752]. **side** [102]. **Sierpiński** [432]. **significance** [677]. **significant** [452, 500, 480]. **significant-digit** [500]. **Signs** [815, 1066, 962]. **Silo** [765]. **Similarities** [590]. **similarity** [670, 573]. **Simple** [740, 804, 885, 789, 275, 273, 711, 354, 183, 171, 577, 694, 595, 147, 155, 538, 494, 26, 319, 294, 906, 157, 298, 361]. **simplices** [297]. **Simplicity** [747, 524, 119]. **Simplifying** [356]. **Simson** [981]. **Simultaneous** [1078]. **Simultaneously** [703]. **Sine** [934]. **SING** [556]. **SING-SING** [556]. **Single** [1061, 645]. **Singular** [71, 23]. **Sins** [882]. **Six** [917, 647]. **sleeping** [233]. **slicing** [398]. **slowed** [84]. **small** [108, 200]. **Smallest** [947]. **Smith** [1005]. **smooth** [828]. **Smoothness** [112]. **Snyder** [780]. **soap** [402]. **social** [267, 937]. **sociology** [606]. **Soddy** [593]. **software** [850]. **solids** [419, 68, 3]. **Solitaire** [944, 6, 310]. **Solution** [289, 366, 86, 16, 14, 15, 47, 200, 199, 369, 368, 947, 310, 250, 568, 81]. **Solutions** [791, 805, 819, 794, 832, 235, 487, 479, 420]. **solvable** [465]. **Solving** [759, 769]. **Some** [558, 215, 196, 713, 994, 100, 864, 537, 668, 1031, 1061, 245, 37, 619, 347, 426, 480, 535, 157]. **sometimes** [48]. **Somewhat** [751]. **Sorting** [783]. **sound** [483]. **sources** [440]. **space** [654, 121]. **space-filling** [121]. **Spaces** [818, 722, 701, 303, 168, 9, 69, 297, 742]. **specialization** [584]. **specified** [189]. **spectral** [71, 57]. **spectrum** [611]. **Sperner** [1092]. **sphere** [647, 18, 55, 583]. **spheres** [647, 651]. **spherical** [827, 566]. **spigot** [489]. **spike** [104]. **spline** [180]. **Splitting** [921, 600, 174]. **sprouts** [324, 659]. **Square** [1076, 412, 29, 416, 896]. **squarefree** [431]. **Squares** [411, 1005, 1078, 307, 904, 27, 262, 79, 156, 161, 666, 169, 34]. **Squaring** [355]. **Stability** [59, 1038, 95]. **stacking** [203]. **Stalking** [545]. **Stan** [794]. **Stanford** [743]. **Stanislas** [889]. **Stanley** [794]. **starlike** [206]. **state** [617]. **Statistical** [901, 863, 80]. **Statistics** [734, 224]. **stay** [456]. **Stedman** [633]. **Steen** [209]. **Stefan** [697]. **Stein** [709, 236]. **stepping** [126]. **stereogram** [437]. **Sterrett** [698]. **Steve** [1115]. **Steven** [850, 862, 757, 877]. **Stewart** [968, 968]. **Stirling** [154, 1082, 279, 96]. **stochastic** [450, 547]. **stock** [272]. **stockbroker** [233]. **Stolarsky** [425]. **stone** [274]. **stones** [126]. **Story** [995, 1026, 548]. **Strang** [210]. **Strange** [253, 210]. **Strategies** [587, 274]. **Strategy** [881]. **Strength** [709]. **strengthening** [220]. **strict** [152]. **strikes** [334, 30]. **String** [459]. **strings** [431]. **strip** [102, 304]. **Strogatz** [850]. **Stroll** [798]. **Strong** [773, 127]. **Strongly** [1077]. **Structure** [1115, 716, 146]. **Structures** [848]. **Student** [329]. **Study** [864, 642]. **Subdifferential** [802]. **subgroups** [226]. **submatrices** [713]. **subordinate** [63]. **Subset** [731]. **Subsets** [879]. **Subspaces** [760, 559, 95, 122]. **successive** [634]. **Sue** [996]. **sufficient** [228]. **Sum** [963, 307, 411, 619, 388, 907, 34]. **summability** [416]. **Summation** [943, 991, 10, 14]. **Sums** [581, 951, 994, 1025, 255, 262, 826, 79, 161, 106, 47, 539, 311, 250]. **superlinear** [263]. **Supremum** [934]. **surface** [576, 597]. **Surfaces** [743, 945, 774, 237, 90, 213, 743]. **Surjectivity** [868]. **Surprise** [747, 763, 367]. **surveyor** [317]. **suspension** [890]. **Sutherland** [379]. **Swiftest** [799]. **switching** [587]. **Sylvester** [116, 669, 458]. **symbols** [897]. **symmetric** [703, 542, 433, 712]. **Symmetries** [315, 55]. **Symmetry** [857, 141, 348, 891]. **Synthesis** [1089]. **Systems** [1061, 276, 177, 77, 137, 480]. **Szeged** [299]. **Szegő** [1051]. **T** [442]. **T.** [743]. **Table** [983]. **tables** [169]. **Tagged** [771]. **Take** [731]. **Take-Away** [731]. **Taking** [921]. **Tale** [995, 544, 910].

**Tangent** [1053, 1067, 634, 472]. **Tanks** [1093]. **Tantrices** [566]. **Tarski** [300]. **Tartaglia** [616]. **Taxicabs** [746, 311]. **Taylor** [46, 877, 208, 38]. **teach** [252, 499]. **Teacher** [976]. **Teaching** [734, 825, 137, 78, 687]. **TEAM** [977]. **technique** [127]. **technology** [615]. **Telegraphic** [795, 809, 823, 938, 970, 997, 1027, 1056, 1085]. **Temple** [382]. **tennis** [596]. **tenth** [172]. **Tepper** [656]. **Tessellations** [241]. **test** [313, 469, 550, 413]. **Tetrahedra** [975, 338, 445]. **Tetrahedron** [1097]. **Texts** [806]. **th** [933]. **Their** [963, 94]. **them** [480]. **theme** [485, 560]. **Theodore** [743]. **Theorem** [872, 1005, 918, 1007, 789, 738, 1038, 978, 1008, 730, 1035, 883, 432, 549, 468, 352, 287, 207, 651, 706, 36, 98, 37, 222, 578, 273, 24, 370, 309, 354, 599, 270, 579, 99, 46, 257, 35, 188, 492, 403, 183, 202, 31, 577, 148, 295, 380, 717, 395, 462, 71, 444, 235, 2, 653, 595, 705, 843, 206, 155, 136, 596, 208, 376, 356, 344, 663, 588, 582, 159, 128, 214, 353, 488, 32, 906, 672, 560, 178, 40, 213, 671, 650, 646, 383, 234, 70, 361, 517, 707, 895, 750, 673, 949, 720, 981, 1055]. **Theorems** [873, 221, 85, 23]. **theorist** [633]. **Theory** [736, 1001, 886, 1010, 1068, 811, 1006, 1031, 1061, 142, 558, 324, 182, 203, 288, 25, 78, 164, 460, 165, 448, 371]. **There** [699]. **thin** [621]. **things** [131]. **Thinking** [726, 718]. **Thomas** [317, 329, 337, 343, 351, 359]. **Three** [974, 556, 652, 1081, 1116, 764, 428, 161, 141, 911]. **three-door** [911]. **Thurston** [758]. **Tie** [871]. **tiled** [339]. **tiling** [92]. **tilings** [180]. **Time** [810, 799, 619]. **TIMSS** [864]. **Toetjes** [93]. **Tom** [936]. **too** [495]. **tool** [137]. **Tools** [1088]. **topological** [451, 192, 9, 69, 128]. **topologies** [167, 49]. **topologist** [462]. **Topology** [781, 1033, 516, 536, 137, 192]. **Toricelli** [817]. **Torricelli** [855]. **torsional** [890]. **Totally** [491]. **Toti** [792]. **Totient** [1080]. **tour** [89]. **tournament** [185, 534]. **Tower** [431, 246]. **trace** [415]. **Tracking** [1106]. **Tracy** [382]. **Tradition** [1089]. **trains** [83]. **transcendental** [447, 198]. **transcendentals** [715]. **transfiguration** [490]. **Transform** [793, 416]. **transformations** [348, 146, 204]. **Transforming** [530]. **transforms** [539]. **Transitive** [569]. **transitivity** [546, 404]. **Translated** [792, 516, 536, 808, 655, 898, 718, 742]. **transmutation** [292]. **transpositions** [513]. **trapezoidal** [611]. **trapezoids** [610]. **trapped** [394]. **traversal** [396]. **treatise** [689]. **Treatment** [1059]. **tree** [912, 126]. **Trees** [1024, 434]. **trials** [460]. **Triangle** [965, 932, 490, 231, 739, 246, 360, 377, 593]. **Triangles** [225, 1081, 722, 338, 37, 658, 592, 445, 443, 544, 692, 58, 44]. **Triangular** [873, 262, 714]. **Triangulating** [390]. **tricks** [434]. **Trigonometric** [893, 826, 438]. **Trio** [873, 729]. **trip** [497]. **triples** [158]. **Tristan** [834]. **trivial** [313]. **Truth** [1026]. **Tuples** [963]. **Turán** [549]. **Turing** [517]. **Turner** [770]. **twist** [181]. **Twists** [746]. **Two** [1110, 1094, 1005, 441, 85, 838, 1081, 202, 714, 825, 764, 161, 238, 23, 364, 777, 658, 197, 305, 600, 544, 106, 407, 311, 504, 250, 560, 910, 516, 536, 34]. **Tychonoff** [273]. **type** [342, 911]. **types** [544]. **Ulam** [741]. **undergraduates** [402, 583]. **undetermined** [179, 584]. **Unexpected** [763]. **unified** [221]. **Uniform** [1002]. **uniformization** [212]. **Uniformly** [1094]. **Union** [1040]. **Unions** [122]. **Unique** [841, 440]. **uniqueness** [247, 488]. **Unit** [1065]. **unitary** [415]. **Unity** [723]. **Univalent** [826]. **Universal** [868, 396, 9, 69]. **Universally** [226]. **Unsettled** [1114]. **unsolvability** [172]. **Unsolved** [731, 699, 756, 1098, 563]. **unstable** [686]. **Urn** [860]. **Use** [771, 570]. **Using** [573, 990].

**V** [351]. **Vakil** [769]. **Value** [872, 750, 949, 876, 978, 1008, 188, 2, 128, 672, 671, 70, 707]. **Values** [1053, 296, 51, 71, 23]. **Vandermonde** [334]. **vanish** [561]. **Variable** [860, 844]. **Variables** [973, 305, 141, 28]. **Variation** [1023, 1112, 485, 218]. **Variations** [468, 436, 457, 560]. **various** [1120]. **vector** [63]. **Vectors** [962]. **Velasco** [876]. **Velleman** [794]. **velocity** [902]. **Versa** [825]. **Versatile** [282, 366]. **version** [492, 183]. **vertex** [435, 560]. **vertices** [225]. **Very** [667, 159]. **VI** [359]. **via** [951, 558, 273, 512, 130, 49, 918, 28, 455]. **Vice** [825]. **Videotape** [864]. **Vieta** [1040]. **View** [943]. **visit** [28]. **Visitor** [794]. **Visual** [834, 345]. **Visualizing** [149]. **Vita** [687]. **Volume** [1117, 760, 588]. **Volumes** [637]. **vs** [400].

**W** [743, 969]. **Wagon** [794]. **Wald** [187]. **walk** [294]. **Walker** [1115]. **Walks** [974]. **Wallace** [981]. **Wallet** [710]. **Wallis** [1040]. **Walls** [990]. **Wanner** [767]. **want** [607]. **Was** [799, 689]. **wave** [150]. **Wavelet** [1115]. **Wavelets** [1115, 330, 1115, 1115]. **Way** [1090, 800, 794, 606, 435]. **ways** [917]. **weak** [196]. **Weatherman** [1090]. **Weierstrass** [36, 512, 717, 155]. **Weighted** [920]. **Wells** [1115]. **West** [850]. **Weyl** [675]. **Weyr** [1091]. **wheels** [498]. **Where** [485, 385]. **Which** [445, 804, 1093, 1090, 722, 169, 794, 4, 67, 561, 532]. **whirlwind** [89]. **Who** [1026]. **Whose** [963, 1063, 454, 634, 838, 495, 1]. **Wielandt** [582]. **wild** [545]. **William** [728, 856, 1064, 757]. **Williamson** [495]. **Wilson** [808]. **Wind** [1090]. **Winning** [881]. **without** [142, 424, 259]. **Wolstenholme** [468, 706, 846]. **Woolfe** [996]. **Work** [799]. **Workable** [419]. **works** [179]. **Workshop** [793]. **Worlds** [888]. **worth** [470]. **Would** [888]. **Would-be** [888]. **write** [508, 528]. **Writing** [862, 862]. **wrong** [449]. **Wythoff**

[191].

**xtravagant** [317, 329, 337, 343, 351, 359].**years** [284, 630, 737, 359]. **Yorkshire** [317].**Yueh** [379, 290, 656, 572, 899, 770].**Yueh-Gin** [379, 290, 656, 572, 899, 770].**Yuri** [836].**Zaphod** [739, 231]. **zero** [454, 602]. **Zeros**[1111, 198, 160, 306]. **Zeta** [1019]. **ZIP** [941,746]. **zones** [323]. **Zonohedra** [211]. **Zorn**

[147].

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toc.html. The authors employ Mathematica to extend earlier work of Bailey, Borwein, and Plouffe, [1120], done in 1995, but only just published, that discovered an amazing formula for  $\pi$  as is a power series in  $16^{-k}$ , enabling any base-16 digit of  $\pi$  to be computed without knowledge of any prior digits. In this paper, Mathematica is used to find several simpler formulas having powers of  $4^{-k}$ . They also note that it has been proven that their methods cannot be used to exhibit similar formulas in powers of  $10^{-k}$ .

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