A Complete Bibliography of the Publications of Jonathan Michael Borwein

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Abstract
This bibliography records publications of Jonathan Michael Borwein.

Title word cross-reference

#11418 [BB09l]. #13553 [Bor81a].

\((a, b) \leftrightarrow ((a + 3b)/4, (\sqrt{ab} + b)/2)\) [BBxxb]. \((a, b) \leftrightarrow (\frac{a+3b}{4}, \frac{\sqrt{ab}+b}{2})\) [BB89b].

\((G)\) [BBL99]. \(1/\pi\) [BB87b, BB88d, BB93d]. 24 [BB16o, CKM+16]. \$25

[BB93g]. \$27.95 [BB91d]. \$30.00 [Coh15]. \$44.95 [BC96]. \$45 [Zei05].

\$45.00 [Sha05]. \$49 [Zei05]. \$49.00 [Ban10, Sha05]. \$49.95 [Ber88]. 5

[Ade13, ZS12]. \$59.50 [Bor06o]. 6 [ZZ14]. \$65 [Odl11]. \$69.95 [Bai91]. 8

[BB16o, Via16]. \$99.00 [Bor99b]. \([a + b]\) [Bor91n]. \([a + \gamma]\) [BB93e].

* [BFG03]. \(b\) [BBG04b]. \(R\) [DL02]. \(C^1\) [BKW02, BFL02]. \(W\) [BL16]. \(D_4\)

[Sol95]. \(D\) [BLN94b], \(E_6\) [Sol95], \(E_6\) [Sol95], \(E_6\) [BL11], \(\ell_1\) [XWQ14], \(c\)

[LS00, YS00]. \(G\) [BBL97c], \(k\) [BBB96b, BBB96c, BBB97d], \(L\)

[BB15c, BB07c]. \(L^1\) [BZ94b, BZ97, Hon85]. \(l^\infty\) [Hon85]. \(p\) [Bor97g, Bor98g].
\( L_1 [BL93b, BV97] \). \( L_1(\Omega, \mu) [BF93d] \). \( L_{1/2} [WSL16] \). \( L_p [BTBT88, BBL10] \). \( n [BB84d] \). \( P [Alt82, BLS 16, BLS 17, BLS 18] \). \( \pi \)

\( AW97, ABBS12, Bai88, BBC^+11a, BBC^+12b, BBC^+12c, Bai16b, BBMW16, BB83, BB84b, BB84c, Bor85b, BB86b, BB86c, BB89a, BG96a, BB96d, BG97b, Borxx, BB11-31, Bor14p, Bor16n, Gan14, GG07, Gui08, Nim15, TK97, Wei15] \)

\( \pi^2 [BBMW11, BBMW13] \).

\( q [LL01, PP11, War03] \).

\( Rn [BBW96] \).

\( p 5 \log [Ade14b] \).

\( t [AX20] \).

\( (z;q) [HGB93] \).

\( " [Bor82c] \).

\( W [Bor16l, Bor16m] \). Weak

\( BF95b \).

\( x_n := M(x_{n-1}, x_{n-2}, \ldots, x_{n-k}) [Bor94a] \).

\( xy + yz + zx [BC98a, BC00] \).

\( (2^n + 2) [BBB05, BBB06a] \).

\( (4) [BB95f] \).

\( (4^n + 3) [AG99, BB97c, Bor97v, Bor97w, BB05f] \).

- analogue [PP11]. - ary [BBG04b]. - designs [AX20]. - elliptic [LL01]. - fold [BBB96b, BB96d, BB97d]. - function [BKW02]. - linear [DL02]. - regularized [XWQ14]. - Series [BB07c, BB15c]. - smooth [BFL02]. - Spheres [BB11-38, BB12-49, BB12-47, BB12-48, BBG03, Bor03z, Bor03-27, Bor03-28, Bor03-29, Bor04-27, Bor04w, Bor04y, Bor04z, Bor09r, Bor10a, HF05, Hoa05, R+05, Zei05, BB04b]. 25 [Bai17a]. 2nd [Bou06].

\( 0 [BC96, Bor06o] \).

\( 0-12-558630-2 [BC96] \).

\( 0-19-850763-1 [Bor06o] \).

\( 0-387-29570-4 [Bou06] \).

\( 0-387-87820-3 [Bor11-38] \).

\( 0-691-14247-5 [BO11b] \).

\( 0-89871 \).

\( 1 [BLN94a, Bor06o, Bor11-38, Bou06, Sha05]. 1-56881-136-5 [Sha05] \).

\( 1-56881-211-6 [Sha05] \).

\( 10 [Bai17e] \). 100-Digit

\( [BB07c, BB15c] \).

\( 11th [CGM95] \).

\( 12 [BB12-49] \).

\( 125th [AAB12] \).

\( 14th [IEE08] \).

\( 17th [IEE08] \).

\( 1880-2 [Bor09b] \).

\( 1983 [SBW84] \).

\( 1987 [AAB+88] \).

\( 19th [Hd12] \).

\( 2 [BC96] \).

\( 2000 [Tod03] \).

\( 2000j [BZ02a] \).

\( 2001 [BB12a, BB12n] \).

\( 2002 [KG04] \).

\( 2012 [BBL+13] \).

\( 2013 [BS14a] \).

\( 2014 [BBC^+14a] \).

\( 2016 [BBS17] \).

\( 2017 [Bai17e, BBB^+20, BE16] \).

\( 20th [BB12x, IEE08] \).

\( 21st [BB12p, BB12q, BB12-48, BBC^+14a, BBG03, Bor03z, Bor03-27, Bor03-28, Bor03-29, Bor04-27, Bor04w, Bor04y, Bor04z, Bor09r, Bor10a, HF05, Hoa05, R+05, Zei05, BB04b] \).

\( 25 [Bai17a] \).

\( 2nd [Bou06] \).

\( 3/14/15 [BB15t] \).

\( 38 [BZ02a, BZ02b] \).

\( 4 [Bor81a]. 4N [Bor97q] \).

\( 4th [HY14] \).

\( 5 [Sha05] \).

\( 51 [Bor81a]. 561-X [Bor05g] \).

\( 5th [BF06b] \).

\( 60th [BBB^+13] \).

\( 6430-6435 [BSZ^+83] \).

\( 7th [KG04] \).

\( 8 [Zä15]. 80th [Ano15] \).

\( 85h [Zä15] \).

\( 90d [BBB97a]. 978 [Bor11-38, Bou06] \).

\( 978-0-387-29570-1 [Bou06] \).

= [IL09].

A. [BS14b]. AAECC [CGM95]. AAECC-11 [CGM95]. AARMS [Bor05d, Bor05e, Bor07a]. Abel [BB13a, Bor03o]. ability [BB11q].

Abraham [PR92]. Absence [BS11b, BS10b, BS10d, Bor10i, Bor10j, Bor11r, Bor11s]. Absolute [BY84]. Abstract [BW79a, BW79b, BW81c, BW81b, BW82a, BW82b]. abundant [BB12-27, BB12e]. Academic [BC96]. academics [BBLZ16d].

Acceleration [BC18b]. Access [Bor04e, Bor04i, BB05e, Bor07d]. accuracy [Bor05g]. Accurate [BB14i, BB14h, BBLZ14b]. ACE [Bor05-28]. ACEnet [IEE08]. Action [BBC+07b, Bor07m, Odl11, Lor09]. Activated [BBB+96a]. Active [BL99]. Actually [Bor11g, BB12-36, BBWY11c, BBWY12c].

Acylic [BW06]. Aczel [BB15d]. adaptive [FN15, LW18, LW19, NFB17a, NFB17b, QYX14, ZH06]. add [BB11f].

Addenda [BC15b]. Addendum [BZ02a]. Addition [BG95a]. Adjoint [Bor83a, BBWY11e, Zal86]. admit [BV94a, BV96a, BV96b]. Adrian [Bou06, Tod03]. Advanced [Bai91, BL87, Ber88, BSZ+83, BB85, Bor85a, BN86, Bor03b, Bor03c, Bor03a, Bor04f, Bor04g, Bor04h, Bor04e, Bor04e, Bor04d, Bor04a, Bor04b, Bor04i, Bor06d, Bor06b, Bor06c]. Advances [AHL17a, AHL17b, BBC10]. Advancing [KAA+15].

Advantages [BB04-30, BBLZ15d]. Advising [Bor03-30]. Aesthetics [Bor01a, Bor01b, Bor01c, Bor01d, Bor06e]. Affine [BGMS21, BW81a]. Affleck [SZ14]. AG [Bor10z, Bor10-27, Bor11-32]. Again [BB15-31, BB13y, BB14c, BB14w]. Age [Hol20, PR92, BB12-51, BB12-52, BB13-35, BB13-36]. ages [BB10g]. AGM [Ber88, Win88, BB87d, BB88c, BB91c, Bor95c, BB98b, Bor03d, Bor03e, Bor03f, Bor04-0, Bor04-29, Bor04-28, BC04, BC04a, Bre17, Bre20a, Lor08, Sol95, Ask88, Cas99]. Agreed [bVP21]. agree [BB15m]. AI [BBLZ16a]. Aided [BB92b]. al [Gan17]. Alarm [BB12o]. Alexandria [SV14]. Alf [BSZ13].

Algebra [BB12p, BB12q, BB12-48, Bor11-29, CGM95]. Algebraic [BK05, Bor09-27, LY18, SV20, BBCP04, BB84d, BB87b, BLY13, CGM95].

algebras [KMY00]. Algorithm [AC18, Bai88, BB09j, Bor09c, BS11b, CZ21, Fin95, SV20, WSL16, Bai16b, Bor09a, BB94a, BBL97a, BNCB99, BCW13, BS10b, BLY13, BLY14, YJ12, K0m00, Kom02, Kom04, MP18, Pos13, QYX14, TK97, XSW12, XWQ14, ZL22]. Algorithms [BB95c, BB96b, Bor99w, Bor99p, Bor10c, Bor10d, Bor10r, BBC03, BBC+11b, BB84b, BB86c, BL97, Bor98n, BB00b, Bor09-29, Bor11l, CGM95, Gui08, Gui16, Gui17, TK97]. Alignment [HMM20]. Alliance [BB13-44, BB13-43]. Almost [Moo18]. along [BB13-47]. Also [BB16r, BB16q]. Alternating
Arctan [Nim15].

Arguments [BV93b, BV94d].

Arctan [Nim15].

Arcline [BB08c].

Arclines [BB08c].
Gui16, Gui17, HNP10, HYG09, Hir17, HC09, HD07, HLZ14, HL15a, HLZ15b, HL15b, HLY16, HLY16, HLY16, HL15b, HL15b, HLY16, HDL21, IP17, IP18, JY12, JD13, JN03, KMY00, Koh01, KJR16, KPS16, KPS17, La 09, LS00, LLS11, LZ14]. Borwein [Li15, LW18, LW19, LY21, Liu01, LL13, MW12, MR96, MP18, MPB16, MR11, NWY09, NWY10, NFB17a, NFB17b, Osb05, PT14, Pos13, PD18, QR07, QYX14, RP09, Ray93, Ray97, RS02, Rei02, SZ14, SI16, SD15, TK97, Tha02, Vir14, WM07, WsdSY15, War01, War03, WSL16, XH08, XSW12, XWQ14, XC11, Yan94, YS00, YW12, Zhao06, Zal86, ZH06, ZSQ10, ZL22, Zha10, Zho12, ZSZ16, Zhu91]. Borwein-based [JY12]. Borwein-Like [WSL16, DABY15, GDT15, Gui17, JD13]. Borwein-type [Gui16]. Borweins [AB15, AAW06, Bai88, Bai16b, Kom00, Kom02, Kom04, LL01, Liu00, XY12].

Commemorative [Bai17a]. Common [BLT17]. Communicating [BMPR02, BRR08, Ban10]. communications [Bor92c]. Community [Bor03p, BS05]. compact [BRLZ99, BLZ99, BRLZ00, BLZ01]. Compactly [BLM99, BLM00]. compactness [BF93c, BF95b]. Companion [HDG+15, Bor09b]. Comparing [DLR20]. comparison [BGL93]. compendium [BBB96b, BBB96c, BBB97d]. Competition [Bor77d]. Complementarity [AI18, BD86, AR13, Bor84a, Bor85c, Bor87e, BD89, HLZ14, HYL16, KJR16, LLS11, LZ14, Li15]. complementary [BC09]. complete [BZ92]. completed [BB14j]. completely [SZ14]. Completeness [Bor83b, QR07]. Completion [ABT13a, ABT14a, CZX21, Bor13j, Bor14f, Bor14g, Bor15g, Bor16p]. Complex [BC04a, BMN98, BMN00, Bor04-29, Bor10-27]. Complex-Parameter [BC04a]. Complexity [BB84e, BB87d, BB88e, Bxxa, BB17, BB98b, Ber88, Wim88]. complicated [Bor14z, Bor16-27]. component [LY21]. composite [HL15a]. Composition [KMZ+03]. compositions [BM97d]. Compound [BB93f]. Comprehensive [BS14a, BS14b]. Compressed [BB13g, BL17a, BL17b, Bor09c, Bor10b, Bor11p, QYX14]. compression [LY21]. compressive [XWQ14]. Computation [Bai88, BB08a, BBM11, BB12y, BC14b, BBC+14a, BB15b, BB15a, BB16a, BB16b, BBM17, BB18, BB84a, BB97b, Bor99g, Bor99h, Bor99i, Bor99j, Bor99k, Bor99l, Bor99v, BB00b, Bor00h, Bor00i, Bor00j, Bor00k, Bor00l, Bor00m, Bor00n, Bor00o, Bor00p, Bor00q, Bor00r, Bor00s, Bor00t, Bor01i, Bor01j, Bor01k, Bor01l, Bor01m, Bor01n, Bor01o, Bor01p, Bor01q, Bor01r, Bor01s, Bor01t, Bor01u, Bor01v, Bor01w, Bor01x, Bor01y, Bor01z, Bor01aa, Bor01bb, Bor01cc, Bor01dd, Bor01ee, Bor01ff, Bor01gg, Bor01hh, Bor01ii, Bor01jj, Bor01kk, Bor01ll, Bor01mm, Bor01nn, Bor01oo, Bor01pp, Bor01qq, Bor01rr, Bor01ss, Bor01tt, Bor01uu, Bor01vv, Bor01ww, Bor01xx, Bor01yy, Bor01zz, Bor01a, Bor01b, Bor01c, Bor01d, Bor01e, Bor01f, Bor01g, Bor01h, Bor01i, Bor01j, Bor01k, Bor01l, Bor01m, Bor01n, Bor01o, Bor01p, Bor01q, Bor01r, Bor01s, Bor01t, Bor01u, Bor01v, Bor01w, Bor01x, Bor01y, Bor01z, Bor01aa, Bor01ab, Bor01ac, Bor01ad, Bor01ae, Bor01af, Bor01ag, Bor01ah, Bor01ai, Bor01aj, Bor01ak, Bor01al, Bor01am, Bor01an, Bor01ao, Bor01ap, Bor01aq, Bor01ar, Bor01as, Bor01at, Bor01au, Bor01av, Bor01aw, Bor01ax, Bor01ay, Bor01az, Bor01ba, Bor01bb, Bor01cc, Bor01cd, Bor01ce, Bor01cf, Bor01cg, Bor01ch, Bor01ci, Bor01cj, Bor01ck, Bor01cl, Bor01cm, Bor01cn, Bor01co, Bor01cp, Bor01cq, Bor01cr, Bor01cs, Bor01ct, Bor01cu, Bor01cv, Bor01cw, Bor01cx, Bor01cy, Bor01cz, Bor01da, Bor01db, Bor01dc, Bor01dd, Bor01de, Bor01df, Bor01dg, Bor01dh, Bor01di, Bor01dj, Bor01dk, Bor01dl, Bor01dm, Bor01dn, Bor01do, Bor01dp, Bor01dq, Bor01dr, Bor01ds, Bor01dt, Bor01du, Bor01dv, Bor01dw, Bor01dx, Bor01dy, Bor01dz, Bor01ea, Bor01eb, Bor01ec, Bor01ed, Bor01ee, Bor01ef, Bor01eg, Bor01eh, Bor01ei, Bor01ej, Bor01ek, Bor01el, Bor01em, Bor01en, Bor01eo, Bor01ep, Bor01eq, Bor01er, Bor01es, Bor01et, Bor01eu, Bor01ev, Bor01ew, Bor01ex, Bor01ey, Bor01ez, Bor01fa, Bor01fb, Bor01fc, Bor01fd, Bor01fe, Bor01ff, Bor01fg, Bor01fh, Bor01fi, Bor01fj, Bor01fk, Bor01fl, Bor01fm, Bor01fn, Bor01fo, Bor01fp, Bor01fq, Bor01fr, Bor01fs, Bor01ft, Bor01fu, Bor01fv, Bor01fw, Bor01fx, Bor01fy, Bor01fz, Bor01ga, Bor01gb, Bor01gc, Bor01gd, Bor01ge, Bor01gf, Bor01gg, Bor01gh, Bor01gi, Bor01gj, Bor01gk, Bor01gl, Bor01gm, Bor01gn, Bor01go, Bor01gp, Bor01gq, Bor01gr, Bor01gs, Bor01gt, Bor01gu, Bor01gv, Bor01gw, Bor01gx, Bor01gy, Bor01gz, Bor01ha, Bor01hb, Bor01hc, Bor01hd, Bor01he, Bor01hf, Bor01hg, Bor01hh, Bor01hi, Bor01hj, Bor01hk, Bor01hl, Bor01hm, Bor01hn, Bor01ho, Bor01hp, Bor01hq, Bor01hr, Bor01hs, Bor01ht, Bor01hu, Bor01hv, Bor01hw, Bor01hx, Bor01hy, Bor01hz, Bor01ia, Bor01ib, Bor01ic, Bor01id, Bor01ie, Bor01if, Bor01ig, Bor01ih, Bor01ij, Bor01ik, Bor01il, Bor01im, Bor01in, Bor01io, Bor01ip, Bor01iq, Bor01ir, Bor01is, Bor01it, Bor01iu, Bor01iv, Bor01iw, Bor01ix, Bor01i,
Bor91m, Bor92e, Bor92f, Bor08c, BD09]. **Computer-assisted**
[BB05a, BB08c, Bor06h, Bor07g, Bor08d, Bor08e, Bor08f]. **computers**
[BB12s, BB12m, BB16c, BB16s]. **Computing**
[BBLZ13a, BBS16b, Bor98h, Bor01e, BB01c, Bor02s, Bor02t, Bor03a, Bor04f, Bor04h, Bor05-28, Cal16, IEE08, JWD+14, Bor92k, Bor92l, Bor92m, Bor98q, Bor03x, Bor03y, Bor06-28, BS11c, BS12a, Bor05g]. **Conant**
[Bai16a, BE16]. **concave** [Bor86b]. **Concavity** [SZ81, Bor90b].
**Conditions**
[BTZ95, BBY12, LY18, Bor82b, BZ88, BL91d, BTZ98]. **Cone**
[BW81a, BW05a, BW81d, BS89, BBL04, BG09]. **Cone-convex**
[BW81a, BW81d]. **Cone-monotone** [BW05a, BBL04, BG09]. **Cones**
[Bor77c, Bor86d, Bor87c, Bor87b, EB08, B076, Bor78c, Bor80a, BM09, BM10, Zhu91]. **Conference**
[Ano15, Bai17a, Bea13, HY14, IL09, AAB+88, ABD03, BF06b, KG04, RZ15]. **Confidence**
[BBLZ14g, confirm [BB14m], conflicted [BBLZ15d]. **conformation** [BT14b, BT14a, BT17], confusing [BB10b], confusion
[BR89c, BR14a]. **Congress** [Bor05i]. **congruence** [Cos17]. **Conical**
[BBB98a, BB99b, BBL97c, BBL99]. **Conjecture**
[DP18, Osb05, BB14q, BB14s, BBBBB, BBBBB, BBW95b, BBBBB, BW97b, BMS13, BSM13, Cvi10, HC09, RP09, Tha02, War01, War03, Zah06, Zha10]. **conjectured** [ABBS12, BB11-31]. **Conjugate**
[BB87, SI16, BB96, BB99c, BBWY11d, BBWY13, BB09, DK16, MP18, WSdSY15, XSW12]. **Conjugates**
[BH06]. **conjugation** [BH09]. **Consequence** [Bor79b, Bor81e]. **Consequences** [Bor87c, Bor86d, Bor87b]. **conspiracy** [BB16g, BB16h].
**Constant**
[BCM20, BB09, BBM11, Bor95q, Bor95r, Bor10x, Bor11-30, PT20, BB09, BBC09, BBM13, BB85, BVW01, BBGW11, Cra12]. **Constant-Length** [BCM20]. **constants**
[AI18, BCPZ20, AK22, BTZ98, DF05, XH08, XC11, ZH06]. **constraint** [BW79b, BW82a, BW82b, BW86]. **constraints**
[Bor77a, BW81a, PD18, ZL22]. **constructed** [BB11i, BB12-34, BB12-35]. **Constructible** [BV04]. **Construction**
[BBWY11b, BBWY12b, GG07, AX20, BGWW97, BW98]. **Constructions**
[BV12, Com18, How14, BV10b]. **Constructive** [BK04]. **contained**
[Ara07, Ara08]. **containing** [BV97]. **Continuations** [Di21]. **continue**
[BB15z, BB15v]. **Continued** [Bor03d, Bor03e, Bor03f, Bor04-30, Bor04-29, Bor04-28, BCP05, BVdPSZ14, BCLM16, BHL16b, BHL16a, BCLM17, BBGPxx, BL05, Bor05j, Bor06i, BL08, Bor10z, Bor10-27, Bor11-32, BHL17]. **continues** [BBxxc, Bor15c]. **Continuity**
[BGM18, Bor82a, Bor87a, BV00a, BV02, BW05a, BY12e, BY13c].
**Continuous**
[BBC09, BTZ95, BB96a, BB99c, BBW07, BTZ98, BW99, BW01]. **continuously** [BFKL00, BFKL01]. **contraction** [Bor83b]. **Contractive**
[RZ18]. **Control** [ANR18, BB151, BZ94a, LY18, BZ94b, BZ97, NFB17b].
controls [BB15w]. conundrums [Tre13]. converge [Bor98d]. Convergence [BB93b, BBT85, BL91a, BL93a, BL93c, BV95a, BBP95, BBP98, BV9x, BY06, BST13, BLT15, BLT16, BLT17, Gil18, Lor08, Mar91, AB12, AB13, AK22, BB93a, BB90a, Bor88j, BF99c, BL91c, BV93a, BV93b, BV94c, BV94d, BH94a, BH94b, BV95b, BV95c, BV95d, BV96c, Bor09-29, BLY13, BLY14, BST15, DL02, HL15b]. Convergent [Bai88, AL10, Bai16b, BB83, Bor94a, TK97]. converges [Bor94a]. converging [BB86c]. converse [BW98a]. Convex [ABMMY13, BB95c, BB96b, BBL97a, BW79a, Bor80b, Bor81b, BT84, Bor87c, Bor90e, Bor90f, Bor90c, Bor90d, Bor91b, Bor91c, Bor93e, BV94b, BV94d, Bor95a, Bor95b, Bor96a, BV97, Bor99a, BRLZ99, BLZ99, BV9x, BL00a, BV00h, BRLZ00, BV01, BLZ01, Bor01o, Bor02b, BL06, Bor06s, Bor08u, Bor09-28, Bor09-32, BV10b, Bor10k, Bor10-33, Bor11q, BV12, Bor13p, BG15a, Bor15f, BL15, Bor16i, Bor16j, Bor16k, BG16c, Bor16u, Bor16v, Bor16w, Bor16x, Bor16y, BG18a, BML18, CFG+18, Moo18, Roc20, AB12, AB13, ABMMY14, BBS10, BBL94, BBL97b, BBL97c, BBL99, Bor79e, BW79b, Bor79a, Bor80e, BW81a, BW81c, Bor81c, BW81d, Bor81d, BW81b, Bor82a, BW82a, BW82d, BPT84, Bor84e, BT85, Bor86e, Bor86a, Bor86b, Bor87a, Bor87k, BP87, Bor88l, Bor89j]. convex [Bor90g, Bor90h, Bor90a, Bor90-40, Bor90-41, Bor90-42, Bor90-43, Bor91d, Bor91h, BFK91, Bor91r, Bor91s, Bor91t, Bor91u, BZ91, Bor92d, Bor92g, Bor92h, BL92c, BL92d, Bor92a, BBT92, BL93a, BB93a, Bor93f, BV94c, BFV94a, Bor94g, BLN94a, Bor94l, BN94, BL94a, BFV95c, BV95a, BV95b, Bor95m, Bor95n, Bor95s, BV96c, BL96, BFV97, BMN98, BZ98, BLM99, BV00a, BMN00, BLM00, Bor00r, Bor01p, Bor01q, Bor01r, BV02, BV04, Bor05-33, Bor05-34, Bor05-35, Bor05-36, Bor05-37, BMV06, Bor06-33, Bor06-34, Bor06-35, BZ06, BM09, BGV99, BM10, BY12, BY12a, Bor12p, BLY13, BLY14, BY14, Bor14o, BY14a, Bor15i, BGL5b, BGL5c, Bor15r, BG16b, Gll18, NWY09, PD18, YW12, ZL22, Zhu91, CFG+18, Bor06, How14, Tod03]. convex-concave [Bor86b]. Convexity [BBFG00, Bor07-28, Bor07-29, Bor07-30, Bor07-31, BS11b, BS15a, BB11a, BBC00a, BB00a, BBC01, BB01b, BO76, Bor77a, BO78, Bor78c, BBFG01, Bor07-27, BS10b, BS10c, BS10d, Bor10i, Bor10j, Bor11r, Bor11s, BY12d, BY14b]. convolutions [BBEM10]. Copulas [Bor13k, PHB12, BH19, PHB14]. copyright [BB10b]. correcting [CGM95]. correlation [BR14c, BR14a]. cosmic [BB09d, BB11d]. could [BB12]. Counter [Bor17b]. Counter-examples [Bor17b]. counterexamples [BV10b, How14]. Counterpart [BB88c, BB91c]. Counterparts [BB15s, BBLZ15b]. counting [BB11e, BB93g]. country [Bor13d, Bor13a]. courses [BB12-44]. crackers [Bor11o, Bor11a]. Crandall [BB12-38, BB15c]. Crash [BB15x, BBLZ15f]. creation [BB09h, BB13-41]. Creationism [BB10c]. creationists [BB13c]. Creativity [Bor090, Bor12n, Coh15]. Crime [BB15i, BB15w]. Criminology [BB13h]. crisis [BB12-41, BB12-53]. critical [BKW02]. cross [DS20]. Crossing [Goo20]. Crucible [Bor09d, Bor08c, BD09]. Cubic [BB84b, BB88c, HGB93, Hiri17, AB15, BB86b, BB90b, BB91c, BBG94c, Bor95c, LL01, Liu00, MP18, XY12]. cultures [Sel16]. Cup [BR14b].
Curiosity [BB12g]. curve [Bor90e, Bor90f]. CUSCOS [Bor89c, Bor89d, Bor90y, Bor90z, Bor90-27, Bor90-28, Bor91a]. Cusps [Bor04i, Bor04m, Bor06c]. Cutters [DLR20]. Cyclic [BT13a, BT13b, BBL94, BBL97a, BBL97b, BLO8, BLY13, BLY14, BT14c, BT15, DHSZ06, HLY16, XSW12, ZH06]. cyclotomic [HC09].

D [BB09g, BB93g, How14, Od11, Bor05-46]. D-DRIVE [Bor05-46]. DALKBAR [BBLZ14j]. Damping [BC18b]. Dangerous [BB12]. Dark [BBLZ14m]. Data [BB14i, BB15h, BB15i, BTZ95, Bor09c, CZX21, BB12-50, BB14h, BBLZ14b, BTZ98, LY21, PHBH13]. dating [BB12d]. David [Hoa05, Sha05, Zei05, Bor03-32, Bor04n, BE16]. Days [Bor11d, Bor16n, Bor11h]. DC [Coh15, AMM10]. Decafening [Sol15]. death [BB11e]. December [Bea13, BB13-35, BB13-36, Bor13-30, Bor15m]. Decadence [BBB06a, Las18, BBB05, BM97f, BM00, BT14b, BT14a, BT17].

Dedekind [BG96a, BG97b, BG97a, BB98c, BB98d]. Dedekind-zeta [BB98c, BB98d]. Default [BBL+13, SBB13, BBS13a, BB13-35, BB13-36, Bor13-30, Bor15m]. Denominators [BZ87]. dense [BB06a, BB99c, BBFY11c, BBFY12c, BY12f]. Densities [BSWZ21, BSWZ22, BSV15, BSV16, Bor14t]. Density [Hou85, BS16b]. Department [Bor03i]. Derivative [BBLN94, Bor94g, BLN94a, BLN95, Bor95m, Bor95n, BBLN95, BLN96]. Derivatives [BB18, BFV93a, BD16a, BD18, AL10, BB16a, BFV93b, BF93c, Bor94m, BM95, BF95b, Bor95v, BMW97]. Deriving [BB14-32]. Descent [Bor99c, SD15, RS02]. design [BBL16a, BBL16c]. designs [AX20]. Desperately [BB15], BB15k. detected [BB16f]. Determination [BB06a, Las18, BB05, BM97f, BM00, BT14b, BT14a, BT17]. Determinations [BB98c, BB98d]. determined [BB97c, BB05f]. developed [BB11q]. Developments [BB99a, BB01a]. devices [Bor00w]. dictionary [BB95e]. Dictionary [Bai91, BB88b, BB99d, BB99e, BS14a, Bor90, BB91a, BB02, BB90d, BBW97, BS14b]. Did [BB13j, BB09f, BB12g]. didn’t [BBW97]. Diego [BC96]. dies [An016, BB12-38, Bai16c, Bai20]. Died [Bor90b]. Difference [Bor11q, BB11a]. different [PHBH13, Zha13]. Differentiability [BB010, Bor90g, Bor90h, Bor90i, Bor90k, Bor90j, Bor91l, Bor91d, Bor92a, Bor92d, Bor02e, BB04, BV09, Bor76a, Bor82a, Bor86c, Bor86b, BFG87, BP94, Bor90a, Bor90-40, Bor90-41, Bor90-42, Bor90-43, Bor91r, Bor91s, Bor91u, Bor92g, Bor92h, BB93a, BB93f, BB93g, BB93h, BN94, BW05a, BM06]. Differentiable
Differential
[BM97b, LY18, MR96]. Digit [Bor05g, Ade10, BB12-29, BBG04b, Bor11j].
digit-extraction [Bor11i]. Digital [Bor02f, BS03, Bor03-35, Bor05i, BRR08, BB09k, BB11z, Ban10, BM06, Bor06-36]. Digitally
[BBB+96a, Bor08g, Bor09a, Bor09e, Bor09f, Bor09g, Bor12-33, Bor09u]. Digitally-assisted
[Bor08g, Bor09a, Bor09e, Bor09f, Bor09g, Bor09u]. Digitized
[BB05e]. Digitizing [Bor02g]. Digits [Bai88, BBMW11, BBC+96a, BFKL00, BFKL01, Bor05g, Ade10, BB12-29, BBG04b, Bor11j].
Dilemmas [GS08]. dilogarithmic [Cvi10]. Dimension [ANR18, BCC10, HDL21, AAW06, BW81c, BW86, Bor91h, Bor92d, Bor92n, Bor92j, BF94a, Bor94b, Bor94g, BF95a, Bor95m, Bor95n, Bor97f, Bor97m, DS20]. Dimensions [BB86a, WB87, BB16o, Bej94, BL91d, BFL02, Bor14t, BS16b, Bor14x, Bai16b, Bor08g, Bor09a, Bor09e, Bor09f, Bor09g, Bor12-33, Bor09u].
discipline [Bor05g]. Disciplined [Bor16h]. Discourse [BS03]. Disclose [BB09j]. Disclosed [BB11r, BB11-29, Bor95c, Bor97q, Bor97v, Bor97w].
Discover [BB09j]. Discovers [BB11r, BB11-29, Bor95c, Bor97q, Bor97v, Bor97w]. Discovery [BB11l, BB11m, BBKL16, BBKL17, Bor02i, Bor02m, Bor03j, Bor03l, BBG03, Bor04p, Bor05i, Bor05m, Bor05n, Bor05o, Bor05p, Bor05a, Bor06l, Bor07g, Bor07k, Bor08g, Bor12-33, Bor16f, R+05, Ade12, BB08c, BB10f, BBG04a, Bor06a, Bor08d, Bor08e, Bor08f, Bor09a, Bor09e, Bor09f, Bor09g, Bor09u, Zei05]. Discussion [BBGP95a]. disease [BB13-28]. distance [BB00a, BB01b, BB02c, BB09j].
Distances [BBG94a, BBG94b]. Distinct [BW95a, BW97a, BB95d].
distributed [Bor99d, BB95d]. Distribution [BB95d]. Distor [BO11a, GN16, Mil90, Mil89, MW12]. divergence [Lor08]. Dizionario
[BB95d]. DNA [BB12-50]. Do [BB12-50].
[BB12-50]. dodgy [BB12a]. Does [BB12b, BB12c, BB12d, BB12e, BB12f, BB12g, BB12h, BB12i, BB12j, BB12k, BB12l, BB12m, BB12n, BB12o, BB12p, BB12q, BB12r, BB12s, BB12t, BB12u, BB12v, BB12w, BB12x, BB12y, BB12z]. doesn’t [BB12a]. Doing [BB12a].
[BB12a].
15

[PL20, BBC⁺11b]. engines [BWB97]. Engines [Bor04p, Bor05l, Bor05m, Bor05n, Bor05p, Bor06l, R⁺05].
enhancement [BM07a]. ENIAC [Bor12o, Bor14p, Bor14s, Bor16o].
Enlargements [BBY11, BBY13]. enough [BB14-28]. entire
[Bor02g, BS10a]. Entropy [BL11]. entropies [BGL93, BH94a, BH94b].
Entropy [BL93c, BL94, BLN94b, BLN94, Bor97l, Bor01o, Bor05-33, Bor06-33, Bor08p, Bor09v, Bor10k, Bor10v, Bor12q, Bor13k, Bor13l, Bor13p, BHP14, BZ20b, Bor90c, Bor90d, BL91a, Bor91b, Bor91c, BL91b, Bor91h, Bor92d, Bor92n, Bor92j, Bor93e, Bor93k, BL93b, Bor94g, BLN94a, BH95, Bor95m, Bor95n, BLN95, BLN96, BCM03, Bor12r, BH19, PHB12, PHBH12, PHB14, BCM02]. entropy-like [BL91b]. Entropy-Type [Bor01o].
Entry [BS16a]. Environment [IEE08]. Environments [Bor04e, Bor04d, Bor04i, Bor06d, Bor06b, Bor06c, Bor06g]. Epi [Bor87m, BLM99, BLM00]. Epi-Lipschitz-like [Bor87m], epi-Lipschitzian [BLM99, BLM00]. Epigraphical [BV95b, BV96c]. episode [BBLZ15g].
equality [Bor77a]. equation [BB13g, BBCZ13, NFB17b]. Equations [AI18, BM97b, BBB97c, BBB00b, BBB04b, BBB16, LY18, BBB97a, Bor86f, Bor87g, Bor87f, BB89a, BBL97c, Bor90e, Bor90f, Bor90c, Bor90d, Bor90e, Bor90f, Bor90d, Bor90c, Bor91c, BTB92]. eta
[BBG96a, BG97b, BG97a]. ETFs [BBLZ14a]. Euclidean [Bor84b, La 09]. Euler [BBB93a, BBG94a, BB06a, BB08d, BBD89, Bor89f, Bor90-29, Bor90-30, Bor90-31, Bor90-32, Bor90-33, Bor90-34, Bor90-35, Bor90-36, Bor90-37, Bor90-38, Bor90-39, Bor91j, Bor91k, Bor91i, Bor91l, Bor91m, Bor92e, Bor92f, BBG94b, BBG95c, Bor95e, BG95b, BBB96b, BBB96c, BG96b, Bor96f, Bor96g, Bor96h, BBB97d, Bor97f, BBD97, Bor98f, BBD00, BB05g, Bor06j, Bor06k, BBB06b, BZB08, BCM09, BBD16, Dl20]. Euler/Zagier [BBB96b, BBG05, BG05, BS11a, BBSW11, BS12b, BBSW12]. every [BKWO2]. ever [Mic03].
Every [BBWY11c, BBWY12c]. everybody [BB11a, BB11d, BB12-30, BB11g]. Everything [SW21, BB09g].
everywhere [Bor12]. evolution [BB12w, BB12-50, BB13b]. Ewing [Jac09].
Exact [BB99g, Bor99h, Bor00b, Bor00c, Bor00d, Bor00e, Bor00f, Bor00g, Bor00h, Bor00i, Bor01i, Bor01j, Bor01k]. example [Bor92c, BD11].
example-oriented [BD11]. Examples
[BFV94b, BFV94c, BFV94a, Bor17b, Com18, DLR20, BB05b, Bor87m, Bor93p, Bor94l, Bor95s, BZ98, Bor06, Tod03]. Excel [BB13-31], excluding [BBG04b].
Excel [BB13-31].

**Existence**

[BF89b, CG18, Bor82d, Bor83e, Bor84c, Bor88k, BL93b].

**Expansion**

[Can14, BB83].

**Expand**

[BBD97, BBD04, BB07c, BBCP04, BBD89, BG95a, BBGPxx, BBD16].

**Expansive**

[BBC08a].

**Expansion**

[Gan14, BB83].

**Expansions**

[BBD97, BBD00, BBD04, BB07c, BBCP04, BBD89, BG95a, BBGPxx, BBD16].

**expansive**

[BS10a].

**Expectations**

[BBCR13, Bor12g, Bor12h, BR16].

**Experience**

[Bor07d]. experiences [Bor08q, Bor12t].

**experiencing**

[KMT16].

**Experiment**

[BBG03, Bor03z, Bor03-27, Bor03-28, Bor03-29, Bor04u, BB04b, Bor05-31, Bor05-29, Bor05-30, BB08h, Bor10a, HF05, Zei05, Hoo05, Sha05].

**Experimental**

[BBG93a, BBG94a, BB99a, BB01a, BB05b, BB06a, BB09e, BB09a, BB10d, BBBBBZ10b, BBBBBZ10a, BBL+13, BB14a, BB15n, BB15o, BB16c, Bai17b, Bai17c, BB18, Bor94c, Bor94d, Bor94e, Bor94p, Bor94r, Bor94q, Bor95e, BBGPxx, Bor95a, Bor95f, Bor95g, Bor95h, Bor95i, Bor95j, Bor95k, Bor95l, Bor96w, Bor96c, Bor99g, Bor99h, Bor99i, Bor99j, Bor99k, Bor99l, BBGPxx, Bor00b, Bor00c, Bor00d, Bor00e, Bor00f, Bor00g, Bor00h, Bor00i, Bor00j, Bor00k, Bor01h, Bor01i, Bor01j, Bor01k, Bor02j, Bor02k, Bor02a, Bor02b, Bor02c, Bor02d, Bor02e, Bor02f, Bor02g, Bor02h, Bor02i, Bor02j, Bor02k, Bor02l, Bor02m, Bor02n, Bor02o, Bor02p, Bor02q, Bor02r, Bor02s, Bor02t, Bor02u, Bor02v, Bor02w, Bor02x, Bor02y, Bor02z, Bor02A, Bor02B, Bor02C, Bor02D, Bor02E, Bor02F, Bor02G, Bor02H, Bor02I, Bor02J, Bor02K, Bor02L, Bor02M, Bor02N, Bor02O, Bor02P, Bor02Q, Bor02R, Bor02S, Bor02T, Bor02U, Bor02V, Bor02W, Bor02X, Bor02Y, Bor02Z, Bor03-29, Bor05-41, Bor06m, Bor06n, Bor07l, Bor07m, Bor07n, Bor07o, Bor07p, Bor07q, Bor07r, Bor07s, Bor07t, Bor07u, BB08g, BB10l, BaO12, Bor14h, Bor16g, Bor16f, CDH+21, CC20b, JB21, dPB21, AMM10, BBKW06, BB14t].

**experimental**

[BB16a, Bor93p, Bor93q, BBGPxx, BB05h, BC98b, BC99, Bor08c, Bor08b, BD09, BD11, Bor09, Od11].

**Experimentally**

[BB12y, Bor93i, BB11-31].

**Experimentation**

[BB12y, Bor92i, BBGPxx, Bor03k, Bor03l, Bor03m, Bor03n, BB04a, Bor04q, Bor04r, Bor04s, Bor09h, Bor09i, Bor10l, Bor10m, Bor11t, Bor12-33, Bor12i, Bor13m, Bor13n, BB11j, BB12z, Bor09u, Zei05].

**Experimentelle**

[BD11].

**Experiments**

[BBG03, BBG06, CS21].

**Explainer**

[BR12, BR13b, BR14a, Tre13].

**Explicit**

[BB06b, BB84d, BB87a, BL92d, BBGPxx, BB95c, BB86b, BS10a].

**Exploration**

[BB12y, BB16n, BB16m].

**Exploratory**

[BB11j, BB12z, Bor09h, Bor09i, Bor09u, Bor10l, Bor10m, Bor11t, Bor12-33, Bor12i, Bor13m, Bor13n, Bor14i, Bor14j, Bor14k, Bor14m, Bor14n, Bor15h].

**Exploring**

[BB12k, KMT16].

**Exponential**

[BB94b, BB03b].

**exposes**

[BBLZ15g].

**exposing**

[Bor78b].

**Expressions**

[BSW82, BBK14].

**Extended**

[NWY09, NWY10, BBC14b].

**Extending**

[SV20].

**Extension**

[CS17, La 09, Bor82e, DABY15, Mil90].

**Extensions**

[Bor10x, Bor11-30, Bor88g, Bor88h, Bor88i, Bor94b, BGV02, BMV06, BBGW11].

**extraction**

[Ad10, Bor11].

**Extraordinary**

[Bai6d].

**extraterrestrial**

[BB11g].

**Extremal**

[PR92].

**Extreme**

[BoR06m, BoR06n, GDT15, JD13].

**F**

[Ban10].

**FAA**

[BBS17].

**FAAAS**

[BBS17].

**Face**

[Cal16, Bor96k, Bor97x].

**Facial**

[BW81d].

**Facilitating**

[BBS16b].

facilities [JY12].

**fact**

[BB12f, BB15m].

**factor**

[BBLZ14h].

**Factorial**

[BC18a].

**factorization**
[BB12-27, BB12e]. Gateway [Bor04j, Bor04k]. Gauss
[ Bor87d, Bor88a, Bor88b, Bor88c, Bor88d, Bor88e, Borxx, Cos17, TK97].
Gaussian [Cha03]. Gems [AMM10]. General
[ BB06b, AB15, BBWY12a, BBWY12a, Bor85c, BV00b, BV01, Bor07x]. Generalisation [BLS+16]. Generalisations [Bor17b]. Generalization
[ Mil89, YS00, AB15, Bor97g, Bor98g, LS00]. Generalizations [TB80].
Generalized [Bor84a, Bor99m, Bor99n, BMW99a, BMW99b, BMW99c, Bor00l, Bor00m, BMV01, Bor10x, Bor11-30, BS11d, BS11e, BHL16b, BHL16a, BHL17, LPB01, RP09, S281, BFG87, Bor94b, BBGW11, Cha03, War01, War03, ZS16, Bor90b]. generated [SZ14]. Generating
[ Bor07g, Bor07k, Bor91n, BB93e, Bor06h, PHBH12]. Generation
[ PHBH13, BB16l, BJCW13]. generator [BCJW13]. generators [BB13x].
Generic [Bor86e, Bor99m, Bor99n, Bor00l, Bor00m, Bor86b, BF93b, BW98b, BW00, BK01]. generically [BW98a]. genius
[ Bor91p, Bor91q, BB91d, Bor11e]. geologic [BB10g]. Geometric
[ BB84a, BLM96, BB97b, BLM97, BB00b, BB04a, Bor87d, Bor88a, Bor88b, Bor88c, Bor88d, Bor88e, Bor88f, Bor89e, BBG93b, BB16t, IP17, IP18].
Geometry [Bor99m, Bor99n, Bor11-30]. German [BB96d, BD11]. get
[ BB09f, BB14-28]. Getting [BB13m]. Girgensohn
[ Odl11, Sha05, Rei02, SZ14]. Giuga
[ BB13n]. Global
[ AB12, AB13, ABT15, ABT16, BB12-28, BB10c, BB12c, NFB17a].
globalization [GS02]. Glum [BB13n]. glummer [BB13n]. go [Bor15a].
goals [BB10h, Bor13c]. God [BB12-32, BB12-33]. goes [BB11u, Bor05k].
Going [BB12x]. Goldbach [Bor05c, BB05d, BB06c, Bor10b, Bor10-31].
Golden [Ade14a]. Good [Bor00j, Bor00k]. googol [Cra12]. googol-th
[ Cra12]. Got [Bor15t]. Gowers [Bor09b]. Gradient
[ BB88a, CZX21, SI16, SD15, BFKL00, BFKL01, BFL02, DLL05, DK16, G02, Li15, LL13, Mar91, MP18, NFB17a, NFB17b, QYX14, Ray93, Ray97, WSISY15, X08, XSW12, XWQ14, YW12]. Gradients
[ Bor99m, Bor99n, Bor00l, Bor00m]. Grading [Swe17]. Graph
[ AC18]. graphics [BJCW13]. Graphs [BB93b, Ber88, BFG03]. Graves
[ BD03]. Gravitational
[ BB14m, BB16f]. great [BB11k, Bor13d, Bor13a]. Greatest
[ BB11l, BB11m, BB10f]. greco [Bor08a]. Greek
[ BS14b, BS14a, Bor90o, Bor90p, Bor94f, Bor08a, SV14]. Green
[ Bor09b, BB12-27, BB12e]. Grid [Bor03b, Bor03c, Bor03a, Bor04e, Bor04a, Bor04b, Bor04c, Bor04i, Bor05-28, Bor07d]. ground
[ BB12-30]. Groups
[ Bor16l, Bor16k, BG16c, BG15a, Bor15f, BG15c, Bor16i, Bor18a]. Grove
[ Bai91]. guarantee [Cam16]. Guessing [Sei01]. Guide
[ Bor02j, Bor02k, Bor06o]. Guided [Bor92i]. Gun
[ BB15l, BB15w]. guru
[ BBLZ14q]. Gurus [BBSL20].

H [Bor92b, Hoa05, Odl11]. H. [MR11]. Haar [BF95c, Bor95a, Bor95b].
Hadamard [BF93d]. Hahn [Bor82e]. Haifa [IMR92, RZ15]. Half [WSL16].
Halloween [BBLZ13e]. Hand
[ BB12-29]. Hand-to-hand
[ BB12-29].
Handbook [Sch15]. handheld [Bor00w]. Handling [Bor03p]. happen [BB13-33]. Hard [Bor01e, Bor02s, Bor02t, BB14d, BBL+16b, XCl11]. hard-wired [BB14d]. Hardback [Ban10]. hardcover [BC96, Bor09b]. HarperCollins [BB91a]. hating [BO11b]. Hausdorff [BK80]. having [BF93a]. Hard [Bor01e, Bor02s, Bor02t, BB14d, +16b, XC11]. hard-wired [BB14d]. Hardback [Ban10]. hardcover [BC96, Bor09b]. HarperCollins [BB91a]. hating [BO11b]. Hausdorff [BK80]. having [BF93a]. Hard [Bor01e, Bor02s, Bor02t, BB14d, +16b, XC11]. hard-wired [BB14d]. Hardback [Ban10]. hardcover [BC96, Bor09b]. HarperCollins [BB91a].
interpolation [Bor98o, DS20]. intersection [BBL97c, BBL99]. Interview [Ano15, BB15n, BB16i, Bor12w]. intriguing [Bor93o, BB95f]. Intrinsich [Kru18]. Introduction [BZ20a, BC21, Bor97I, Bor02o, Bor07r, Bor07s, Bor07t, Bor07u, Bor09s, Bor09q, BR10, Bor11k, Bor11i, Bor13g, BvdPSZ14, Bor20, Bre20b, BL20, Bor08c, BD09, Bor10s, BD11, BS11c, BS12a]. invariance [BLZ99, BLZ01]. invariants [BB98c, BB98d]. invented [BB11r]. inventor [BB12-38]. Inverse [Bor97h, Bor08p, Bor09t, Bor09v, Bor10k, Bor10v, Bor12q, Bor13f, Bor13p, AL10, BBC+11b, Bor92k, Bor92l, Bor92m, Bor12p, BT14b, BT14a, BT17]. investigation [BBGPxx]. Investing [BB14n, BBLZ13c, BBLZ13h, BBLZ14g]. Investment [BBLZ13a]. investments [BBLZ15g]. Investor [Bor14c]. investors [BBLZ13b, BBLZ14j, BBLZ15b, BBLZ15d]. involving [BSW82, Bor93o, Mer15, XY12]. ISBN [Ban10, BC96, Bor05g, Bor06o, Bor09b, Bor11-38, BO11b, Bou06, Coh15, Odl11, Sha05]. ISBN-10 [BO11b, Bou06]. ISBN-13 [BO11b, Bou06]. Ising [BB06b, BBC06, BBBC07]. Ising-Class [BBBC07]. Islamic [SV14]. Isometry [BGMS21]. Israel [Bor90b, RZ15]. Issue [AHLC+17b, BC21, AAB12]. Issues [BL99, Bor00t, Bor03p]. Italian [Bor09a]. Italy [ABD03]. iterated [BR16]. Iteration [BB89b, BBxxb, BT13a, Gil18, AB12, AB13, BB86b, BB90b, BB93b, Bor94a, BT14c]. Iterations [Bor89g, Bor89h, BB93f, BLT17, BB91b, BR92, Bor93j, BS10c, BS10d, Bor10k, Bor10j, Bor11r, Bor11s, Bor13r, BLT15, BLT16]. Iterative [Bor92k, Bor92l, Bor92m, WSL16, XC11]. IV [Bor06u].
Mathematics/Ouvrages [Bou06]. Mathematik [BD11, Fal96].
Mathématicques [Bor00o]. Mathématiques [Bou06]. MathResource
[BWB97, Bor97k]. Maths
[Bor09u, Bor12m, BB11g, BB11f, BB12i, BB12k, BB13p, BB14e, Bor11e].
matrices [Bor84c, BR84]. Matrix [ABT13a, ABT14a, BRxx, Bor13j, Bor14f,
Bor14g, Bor15g, Bor16p, HNP10, HLZ15a, HLZ15b, IP17, IP18, LL13].
Matter [BB09c, BB12-30, Bor10f, Bor10g]. Matters
[Bor09u, BB14-31, BB14-32, Bor97v, Bor97w]. Mattingly [Bai16a, BE16].
mature [Bor94n]. Max
[Bor94g, Bor04-32, Bor13-32, BZ20b, BBM99, BBM00].
Maximization [Bor94g, Bor04-32, Bor13-32, BZ20b, BBM99, BBM00].
Maximization [Bor94g, Bor04-32, Bor13-32, BZ20b, BBM99, BBM00].
Maximizations [Bor77c]. maximize [Bor09u]. Maximizing
[Bor99q, Bor99r, Bor00p, Bor00q, Bor04v, Bor05-32]. Maximum
[BL93c, BL94a, BL94b, Bor95m, Bor95n, BLLN95, BLN96, Bor97l,
Bor01o, BCM02, Bor05-33, Bor06-33, Bor08p, Bor09v, Bor10v, Bor10w,
Bor12p, Bor12q, Bor13p, BHP14, PHBH12, Bor92n, Bor93k, BL93b, BCM03,
BH19, PH12, PH14]. May
[BW95a, BBS17, IEE08, KG04, RZ15, BW97a, BW98a, Bor15d]. Maybe
[BB12-37]. Me [Bor04n, Bor11j, Bor11k, Bor11l, Bor11m, Bor11n, Bor14d,
Bor14c, Bor12d, Bor15e]. Mean [BB84a, BB89b, Bor89h, BB93f,
BB97b, BB99y, Bor99z, Bor99-27, BBxxb, BB00b, Bor00u, BB04a, BB11-28,
BB13o, Bor87d, Bor88a, Bor88b, Bor88c, Bor88d, Bor88e, Bor88f, Bor89e,
BB90b, BB93b, Bor94a, BW98a, Bor98p, BBS1a, BB16t, IP17, IP18].
Mean-Value [Bor99-27, Bor00u]. Meaning [DD15]. Means
[BB87c, Bor93j, BLM96, BLM97]. Measures
[BCM20, Bor11f, Bor11-27, Bor11-28, Bor11-34, Bor11-35, Bor12-32, BS11a,
BSW11, BS12b, BBS12, BS13]. median [Bor99a, Bor14b]. media
[BB12f, BB15-27, Bor12-28]. medical [Bor14a, HYG09]. Medicine [Sel16].
Medieval [SV14]. Meet [Bor14b]. meeting [Bai17c]. Meetings
[Bor11-29, BL16]. meets [Bor05k]. Melbourne [BR14b]. Memorial
[IEE08, SBW84, Bor06a]. Memoriam [SB13]. memory [BSZ13].
Merchants [BB11t]. Merseenne [Cha03]. mesh [AK22].
mesh-independent [AK22]. mess [BB13-29, BB13-30]. Meters
[BB13-38, Bor12-27, BB12i, BB12-46, BB13-37]. Method
[ABT13a, BL17a, BL17b, BT13b, BLS+17, BLS+18, HDL21, AR13, AX20,
ABT16, AP16, AK22, BBL94, BB95b, BB97a, BBL97b, BS17, BH95, BT15,
BLS+16, DL02, DLL05, DHSZ06, DK16, FN15, Fle05, GS02, HYG09, HD07,
HLZ14, HLZ15a, HLZ15b, HLY16, IP17, IP18, KJR16, La 09, LLS11,
LI14, LI15, LI13, Mar91, MR96, MPB16, NWY09, NWY10, NFB17a,
NFB17b, PT14, PH18, Ray93, Ray97, RS02, WM07, WSdSY15, XH08,
YW12, ZH06, ZSQ10, ZSZ16]. Methodology [BBGP95b]. Methods
[ABT13a, ABT13b, ABT14a, ABT14b, BB88a, BL93c, Bor97l, Bor00t,
Bor01o, BZ02a, Bor05-33, Bor06-33, Bor08p, Bor09q, Bor09v, Bor09-27, Bor10k, Bor10v, Bor12q, Bor13k, Bor13l, Bor13p, BST13, DLR92, PR92, Sch15, ABT13c, BB05b, BB10g, Bor92k, Bor92l, Bor92m, Bor94g, BLN95, Bor95m, Bor95n, Bor98k, BZ06, Bor12p, Bor13j, BZ13, Bor14f, Bor14g, BT14b, BT14a, Bor15g, BST15, Bor15r, Bor16p, BT17, DF05, GDT15, HNP10, HL15b, JD13, PHBH12]. Metric [BBT98, BGM18, BK80, BZ95, BZ96]. Metrical [HMM20]. Michel [Bor17b]. mid [BBLZ14i]. mid-term [BBLZ14i]. Might [CDH+21, Bor07-27]. million [BB14e]. millions [BB15q]. mine [BB12h]. ming [L09]. Minimal [Bor99c, Bor99d, Bor00y, Bor00z, Bor00-27, Bor00-28, Bor01a, BFK91, Bor95o, Bor95p, BF99a, BM97e, BK04]. Minimality [Bor87c, Bor82b, Bor86d, Bor87b, BM97f, BM00]. minimax [BZ86, Bor14z, Bor16-27]. Minimization [BL94, BLN94b, Bor09-30, Bor09-28, Bor09-29, Bor09-27, BL91b, Bor92j, BV09, NY10, Ray97, XWQ14]. minimizing [HL15a, NY10]. minimum [Bor79c, Bor80e]. Miraculous [Fin95]. miscalculate [BB11c]. Missing [Bor99c, BB15e]. Misuse [BB09h]. mixed [BH19]. MKM [ABD03, BF06b]. modal [Bor96e]. model [Bor16h, Cam16, ZSZ16]. Modelling [Bor13q, BHP14, PHB14, Beal3]. Models [JL20, BL92d, Cam16]. Modern [Bor99z, BB12-34, BB12-35, BB15b, BB15o, BS11c, BS12a]. Moderne [Fal96]. Modified [LL13, BS17, XSW12]. MODSIM [Beal3]. Modular [BBB97c, BBBO0b, BBBO4b, BBBO6, BBBO9a, BB85b, BB86f, BB87g, BB87f, BB89a, BB89b, BB94c, Liu00]. moduli [Zhal3]. modulo [ZS12, ZZ14]. Moll [Odl11]. moment [Bor90e, Bor90f, BL91c, BGL93, BH94a, BH94b, BL94a, BH95]. Moments [BS07, BS08, Bor10x, BBGW11, Bor11-30, Bor14t, BS16a, TB00, BBGG08, BH19]. Mono [Ber88]. Mono- [Ber88]. Monochrome [Ber79h]. monoids [Bor15f, Bor16i]. Monotone [AHLC+17a, AHLC+17b, BBWY11d, BBWY13, Bor72, Bor02b, Bor04a, Bor05-34, Bor05-35, Bor05-36, BB06, Bor06s, Bor06t, Bor06-34, Bor06-35, Bor06-31, Bor09-29, BBY11, BEY11, BY12c, BBY13, BD15, BML18, EB08, LLT18, Sim18, BB95a, BB03, BBW07, BBW10, BBW11b, BBW11c, BBW11e, BBW11c, BBW12b, BBW12c, BBW12e, BB89a, BFK91, Bor98n, Bor02d, Bor02e, BB04, BB05a, BB06-32, BB07, Bor07b, Bor07x, BE08, BG09, Bor12j, Bor12k, BY12f, BY12h, BY12d, BY12e, BY13b, BY13a, BY13d, BY14b, BY14c, BY15, BD16b, HLZ15a, SZ14]. Monotonicity [Bor09j, Bor09k, Bor12y, BBS15b, BBS20, BB07+07, BB96a, BB99c, BBWY11e, Bor82c, Bor06-30, Bor10n, BRS11, Bor12j, Bor12k]. Mouth [bVP21]. Monthly [BB07a, BB12-47, BB09, BB09m, BB10k, BC15a, BC16, BC18a, bVP21]. Montreal [KG04]. Moore [BB12-39, BB12h, BB15z, BB15y, Bor15j]. morass [BB10b]. Mordecai [Bor90b]. Mordell [BBC14b, BB15a, BB16a, BB16b, BB18, Bor12e, Bor12f, Bor12r]. Morozov [BMCL18]. Mosco [BB90a, BB93b, Bor88j, BB89c, BB93a, BB94c]. most [Bor16b]. Motivation [Bor09-30]. motive [BB09d]. Movements
movies [Bor15b]. MR [Bor81a]. MR0716121 [Zål86]. MR0991866 [BBB97a]. much [BBLZ15d]. Multi [Bor96e, Bor97m, BBM01, BBM02, Bor97f, Bor16h]. Multi-dimensional [Bor97m, Bor97f]. multi-disciplinary [Bor16h]. multi-institutional [Bor16h]. Multi-modal [Bor96e]. Multi-variable [BBM01, BBM02]. Multidimensional [Bor96f, Bor96g, Bor96h, BH06, BTBT88, Bor97q]. Multifunctional [Bor98k, BZ99a, BZ99b]. Multifunctions [Sim18, BF94a, Bor94b, BF95a, Bor95o, Bor95p, BMS97, BMS99a]. Multimedia [BMPR02]. Multimodal [Bor97a]. multiobjective [MPB16]. Multi [BBBL97, BBBL98a, BBBL98b, BBK00a, Bor10y, BZ11, BBBL01, BC10, BDT16, JY12]. multiple-zeta [BC10]. Multiplier [Bor80b, Bor81d]. multipliers [Bor80c, BZ16]. Multivalued [Bor77a, Bor79d]. Multivariable [Bor00r, Bor01p, Bor01q, Bor01r]. Multivariate [Bor16h]. My [Bor08q, Bor12t, Bor07-28, Bor07-29, Bor07-30, Bor08u, Bor12a]. Mysteries [Bor11-31]. mysterious [BB11-27]. myth [BBLZ13e].


Neverending [BvdPSZ14]. Newcastle [Bai17a]. Newfoundland [IEE08, SBW84]. Newly [BB12i]. news [BB12t, BB12a]. Newton [BBW97, CDH+21]. Next [Bor02c, Bor02q, BB16l]. NI [BE08]. Nielsen [BS15b]. Nikodym [GLR18]. NJ [Bor09b]. NMR [BMN98, BMN00]. No [BB13r, BB13s, BM97a, BB13i, BKW02, Cam16, Zål86, BB12-34, BB12-35].

no. [BZ02a]. Nobel [Bor14b]. Noether [BB12x]. Non [ANR18, Bor72, Bor05-33, Bor06-33, Bor13p, Bor16u, Bor16v, Bor16w, Bor16x, Bor16y, Gil18, AB12, AB13, BBWY11b, BBWY12b, BZ94a, BE08, BS10a, Bor15r, LL13, Sel16, BM07c]. Non- [Bor05-33, Bor06-33]. Non-Convex [Bor16u, Bor16v, Bor16w, Bor16x, Bor16y, Bor13p, Gil18, AB12, AB13].

non-expansive [BS10a]. Non-Linear [Bor72]. non-negative [LL13]. non-reflexive [BBWY11b, BBWY12b, BZ94a, BE08]. Non-Smooth [ANR18, RM07c]. non-Western [Sel16]. nonattaining [BK01]. Nonconvex [ABT15, BC18b, Bor10k, Bor13r, ABT16, BJ97, BZ98, BJ98, BB12p].

nondifferentiability [BG09]. Nonexpansive [BS83, BS84b, Bor09-29, BR511]. Nonisolated [AI18]. Nonlinear [BBC09, Bor99a, BL00a, BZ02a, BZ02b, Bout06, Dil20, Tod03, BL06, IMR92, ZL22].

nonlocal [PT14]. Nonmonotone [BL17a, BL17b, GS02, QYX14, XWQ14, AP16, IP17, IP18, Li15, NFB17a, NFB17b, YW12, ZSQ10]. nonnegative [HNP10, HLZ15a, HLZ15b, WM07]. Nonnormality [BB12-40].
nonreflexive [BL93a, BV93b, BV94d, BZ94b, BZ97]. nonsense
[BB12-42, BB12-43, BB13d, BB13-34]. Nonsmooth
[BC18b, Bor94h, Bor94i, Bor94j, Bor94k, BM07d, CFG+18, WB87, Bor98k,
BZ99a, BZ99b, XWQ14, YW12]. noon [BBLZ15c]. Norm
[Bor86a, BST13, BST15, Ara07, Ara08, BFG03]. Normal
[BB13x, BB13y, BB14c, BB14w, BCJW13, BG87]. Normality
[BB+11a, BB+12b, BB+12c, BB+12a, BN84]. Normed
[BFV94b, BFV94c, BR94a, Bor94l, Bor95s, BLM99, BLM00]. norms
[BY84, BV93a, BV94c, BJSM00, BJSM02, BGV02, BBL10]. notation
[BB11e]. Note [BMCL18, BB86a, BM97a, Bor76b, Bor80d, Bor82d, Bor82c,
Bor83d, BF94b, Rei02, Tha02]. Notes [Bor06-36, HC09]. notion [JN03].
Notions [Bor87c, BG01, BG03a, Bor86d, Bor87b]. novel [Ade12]. NSW
[Bai17a]. Nuclear [BB14q, BB14p]. Null
[BM96b, BM98b, BF95c, Bor95a, Bor95b]. Number
[Ber88, BB87d, KG04, Wim88, BB11-27, BB13-42, BB13-47, BB16p,
BJCW13, BCJW13, BB93d, BB96d, BB98b, BSZ13]. Numbered
[Bor11d, Bor11h]. Numbers [Ade14a, ABBB13, BB88e, BB97, BBxa,
BB00, BB04, Bor90t, Bor13-28, Bor13-29, Bor16-29, Bor16-30, Bor16-31,
BBCP04, BB11e, BB12t, BB12a, BB13x, BB14d, BB14x, BCJW13, BB90d,
Bor11i, Bor13u, Bor13v, Bor13w, Bor13x, Bor13y, Bor13z, Bor13-27,
Bor14x, Bor14y, BB16d, Bor16q, Bor16r, Bor16s, RP09, Bai91, Bor90].
Numeracy [BB09i, BB12-41, BB12-53]. Numerical
[AX20, BB08e, BB08b, BB12-42, BB12-43, BS99d, BS99b, BS00, Bor00s,
Bor09z, BB11b, Bor05g, MR96]. numerique [Bor00o]. Nurturing
[Bor03-30].

O [BB13-45, BB13-46]. Obituary [BBS17]. objectives [Bor91h, Bor92d].
Objects
[Bor06s, Bor91e, Bor91f, Bor91g, Bor91j, Bor91k, Bor91i, Bor91m,
Bor92e, Bor92f, Bor05-34, Bor05-35, Bor05-36, Bor05-37, Bor06-34, Bor06-35].
Observations [BB92b]. odd [BS16b], odds [BR14b]. Odyssey
[BB12u, BB12n]. OEIS [Bor15d, Bor16a, Bor17a]. Official [Bor15a]. often
[Bor15a]. oil [BB12-27, BB12e]. Old
[BB14-32, BB12-31, BB12d, BB15q, BB15z, BB15y, Bor15l]. Olver [BB13k].
once [BB13-47, BB15-28]. One [BBB97c, BB00b, Bor03-33, BB04b,
BB16, BB97a, BB89, BF94a, Bor94b, BF95a, BF95a]. Online
[BS+15a, BS+16b, Bor97o, BBLZ14i, Bor01f]. only [BB13-39]. ontological
[BB15b, BB15o]. Ontology [DD15, BB15b, BB15o]. Open
[BB08k, Bor03-34, Pea07, BBS13a, BB13-35, BB98a, BB99b]. openness [Bor78a, BZ88]. Oper. [Zal86]. Operator [BY12c, BBWY11c,
BBWY12c, BY12b, BY12d, BY13b, BY14b, BY15, BG16a, BG18b, KMY00].
Operators [AHLC+17a, AHLC+17b, Bor72, Bor04o, BF95, Bor06t,
Bor06-31, BY11, BML18, EBO8, LIT18, BB96a, BB99c, BBW07,
BBWY11b, BBWY11d, BBWY12b, BBWY13, Bor82a, BPT84, Bor84e,
Bor86e, Bor86b, BF89a, BF9K1, Bor92n, BT92, Bor98n, BRLZ99, BLZ99,
BRLZ00, BLZ01, Bor05-34, Bor05-35, Bor05-36, Bor05-37, Bor06-34, Bor06-35, Bor06-32, BW07, Bor07b, Bor07x, BE08, BRS11, BEY11, Bor12j, Bor12k, BY12f, BY12e, BBY13, BY13a, BY13c, BY14c, RZ15. **Opinion** [BBS13a, BB15m]. **Opportunities** [BW79a, LY18, BW79b, BW81c, BW82a, BW82b]. **Optimisation** [Bor17b, BM07c, JN03]. **Optimization** [Ano15, ANR18, ABT13b, ABT14b, AHLC+17a, AHLC+17b, BBLZ13a, BC18b, Bor74, Bor78a, BTZ95, Bor99a, BL00a, Bor02b, Bor12-30, Bor12-31, Bor16l, Bor16m, Bou06, CFG+18, CPRZ20, DGLV20, IMR92, SZ81, SI16, Tod03, AP16, AK22, BBL97c, BBL99, BBC03, Bor77a, Bor81b, BN84, BZ91, BZ93, BL94b, BTZ98, BL06, BL16, DHSZ06, LW18, LW19, MP18, MPB16, NFB17a, WSdSY15, XH08, XSW12, ZH06, ZSQ10, Zhao12, ZZS16, IMR92]. **Options** [BCM02, BCM03]. **Order** [BC18b, BD86, Bor87e, EB08, BB84b, BB84d, Bor86e, BB87a, BD89, Bor92g, Bor93f, Bor93g, BF93b, BN94]. **order-bounded** [Bor86e]. **orderings** [Bor74]. **Organic** [Bor96i, BBJC97, BJ12, BBC+96, Bor97e, BBC+97b, BBJC97]. **oriented** [BD11]. **Origami** [AD20]. **origin** [BDT16, BG16a, BG18b]. **originating** [Bor05], Bor06i]. **Origins** [BSS14b, BS14a]. OSCAR [IEE08]. **oscillatory** [BB10d]. **out-of-sample** [BBLZ14s]. **Outlook** [BB99a, BB01a]. **outperform** [BBLZ14a]. **Ouvrages** [Bou06]. **Over-Fitting** [BBLZ13a]. **Overfitting** [BBS+16a, BBLZ17, BBLZ14c, BBLZ14k, BBLZ14s, BBS+15a, BBL+16b, BBL16a, BBL16c]. **overlords** [BB11o]. **Overseas** [BB15a, BBZL15b]. **Overview** [Bor09-30]. **Oxford** [BB93g, Bor06o, BO11b, Bor06]. **Oz** [Bor11m, Bor11n].

**P** [Bor92b]. **PA** [Bor05g]. **PACBB** [ZH06]. **Pacific** [Bai91]. **packing** [BB14j, BB16o, CKM+16, Via16]. **pages** [Bou06, Sha05]. **pain** [BB12v, BB12]. **Pairs** [Kru18]. **Paleo** [BB12r, BB16d]. **Paleo-Mathematics** [BB12r, BB16d]. **Pamphlet** [BB03]. **Paper** [Bor14v, Bor14w, Bor81a, Zal86]. **Papers** [BB14p, BB14q, Bor11b, Bor11c, Cam16, KG04]. **Paradox** [Bor04-32, BB15], BB15-29, BB10e, BB15k, BB15-30]. **Parallel** [BB08e, Bor09t, DS20, BB09b, BJCW13]. **Parameter** [BCF04, BCS0a, ZSZ16]. **parameters** [LLC+95]. **Parametric** [BBS06b, Geo05]. **Parabolas** [CD20]. **Pareto** [AR13, Bor80a, Bor83c]. **Pari** [Bor92c]. **Paris** [CGM95, BFL97]. **Part** [BSS17a, BSS17b, BSS17c, Bor93e, Bor16b, BB15, BB15k, BL92d, BNN94a, BLZ99, Bor03m, Bor03n, Bor08c, Bor08f, Bor12e, Bor12f, Bor12-30, Bor12-31, Bor13-34, Bor13-35]. **Partial** [DP18, Bor74, MR96]. **Partially** [Bor86b, Bor88i, BL92c, BR92d, BR93b, Bor97p, Bor981, Bor98m, BTZ99, Bor99t, Bor99u, Bor00v]. **Partially-finite** [Bor81, BL93b]. **partitions** [RP09]. **Parts** [Bor15h]. **pass** [BB12j, BB12-36]. **Past** [Bor07a, Cam16, Bor08r]. **Patents** [BB14q, BB14p]. **pathological** [BWWY11b, BWWY12b]. **Paths** [Bor03l, BBG03, Zei05, BBG04a]. **pattern**
[BB09i]. Political [BB10i]. politicians [BB12-51, BB12-52]. politics
[BB12b, BB12-45, BB13u, Bor13c]. polyhedra
[ Bor00r, Bor01p, Bor01q, Bor01r, BBM01, BBM02]. polylogarithm [Ade12].
polylogarithmic [BBP97, Bor97m, GG07]. Polylogarithms
[BBBL98c, BBBL99, Bor14e, BB16b, Bor97q, BBBL01, BS15b]. polynomial
[BBH05]. Polynomials [BCM20, BBKL16, BBKL17, Dil20, HC09]. Pools
[BBLZ14m]. Poor [BB12-44, BBLZ14j]. Poor-quality [BB12-44]. Poorten
[BS13]. Popper [BBLZ14d]. Portfolio
[ Bor09o, Bor12n, BBLZ13d, BBL16a, BBL16c]. positive [DABY15].
Possible [ Bor07w, Bor07-32, Bor08n, Bor08o, BBxxc]. Possibly [AI18].
postcards [Bor10o]. powers [BC07]. Pp [Ban10, Bai91, Ber88, BB91d, BB93g, BC96, Bor05g, Bor06o, Bor09b, BO11b, Coh15, Odl11, Zei05].
Practical [BL91d]. Practice [BBS16b, BJL+08]. precedent [BB14b].
Precision [BB08a, BB08e, BB08h, BB13q, BB90c, BL92e, BB92a, BB09b, BB09b, BB11b, BB12, BB15p, Bor10q, DS20]. Preconditioned [MR96].
predict [BBLZ16a]. predicted [BB16f]. prediction [BB14m]. Preface
[AAB12, AHLC+17a, AHLC+17b, BMST18a, BMST18b]. Prefer
[BB13t, Bor15k, BC15b, BC15a, BC16]. Preiss
[Bej94, Dev9x, Fab89, Geo05, KPS16, KPS17, LS00, QR07, YS00]. Preisses’
[BWM95, BMW97, BW03, BH19]. Presence [Bor99e, Bor99f, Bor99d, Bor16z, Bor13-34, Bor13-35, BZ13, BLT15, BLT16]. Present
[ Bor07a]. Presentation [Bor05e, Bor89a]. President [Ano16]. presidential
[BB12-42, BB12-43]. Press [BB93g, BC96, Bor06o, Bor09b, BO11b, BS14a].
Previously [BBMW11, BBMW13, BBMW16]. Price [Bai91, Ber88]. prices
[BCM02, BCM03]. primality
[BBBG94, BBBBB95, BW95b, BBBBB96, BW97b, BMS13, BSM13]. prime
[BB14s, BB16p]. primes [Cha03]. Princeton [ Bor09b, BO11b, HDG+15].
principal [LY21]. Principle [BMCL18, Bor03-33, Bor04-31, BHP14, Geo05, YS00, Bor83b, BB84f, Bor86g, BP87, Bor87h, Bor87i, Bor87j, Bor90m, Bor90n, BCM03, BCFR04, Fab89, KPS16, KPS17, LS00, QR07, BCM02].
Principles [BBS16b, BMS99b, Bor06r, Bor06s, Bor06t, Bor06u, Bor09-31, Bej94, BTZ99, BV09]. Prize [BB14e, Bor3o, BB13a, Bai16a, Bor14b, BE16].
Prizes [Bor03o]. Probability
[BBLZ13a, BBLZ17, BCM02, BCM03, BB09h, BB12w]. Problem
[ AB15, BB07b, BB07a, BB08f, BB09i, BB12-47, BD86, Bor13e, Bor13f, Bor13i, WSL16, ABT16, BB16o, BW81d, BD89, BGL93, CKM+16, GDT15, LLS11, PT14, Pos13, Ray97, Via16, Vir14, Zho12]. Problems
[AJB86, ABT13a, ABT13b, ABT14a, ABT14b, AC18, AI18, ANO+83, AJ86, BB09m, BB95c, BB96b, BL87, BC18b, BSZ+83, BB85, Bor85a, BN86, BB87c, Bor93l, BB93c, BLN94b, BTZ95, Bor96j, BDT96, BBS+97, BPB99, Bor05b, Bor08p, Bor09c, Bor09v, Bor09-30, Bor09-28, Bor09-31, Bor09-29, Bor09-27, Bor10k, Bor10v, Bor10w, Bor10q, BT13b, Bor13i, Bor13p, Bor16u, Bor16v, Bor16w, Bor16x, BLT17, BLK+93, CJK92, CG18, CPRZ20, DAK88, DNG+86, DBCB88, DGLV20, EWM86, GRM+97, GC88, KJ86, KC89, KWK+90a, KWK+90b, KWK+90c, LPB01, Mon89, NJS88, NOL86,
problems

[BL94a, BZ94b, BH95, BZ97, BTZ98, Bor12p, Bor13j, Bor14f, Bor14g, BT14b, BT14a, BT15, Bor15g, Bor15r, BT17, HD07, HLZ14, HLY16, JD13, KJR16, LZ14, Li15, LW18, LW19, MPB16, NYW10, Pea07, PD18, WSdSY15, YW12].

Proceedings [Bor96i, IL09, AAB88, BBJC97, IMR92, HY14, ABD03, BF06b, CGM95, RZ15].

process [Bor83a, Zal86].

processes [Bor86a, MTCB98].

processing [BJCW13].

Produce [BBBL20].

Product [BPB99, BB83].

productive [Mic03].

products [RZ15].

Professor [MW16].

Program [BW79a, BW79b, BW81c, BW82a, BW82b, BW97].

programmed [BB11c].

Programmes [Goo20].

Programming [Bor01o, Bor05-33, Bor06-33, BL15, TB80, Bor76a, Bor79a, Bor81c, BW81d, Bor83c, Bor83f, BW86, Bor87k, Bor88l, Bor90e, Bor90f, Bor90c, Bor91d, Bor91e, BL92c, BL92d, BTB92, Bor93e, BL93b, Bor94g, Bor95m, Bor95n, BBY12, BBY14, DF05, ZL22].

Programs [CFG+18, Bor79c, Bor80e, BK83, Bor91h, Bor92d].

Progress [BB08b, BB11b, Bor12y, BY12c, BY15].

progressions [Zah06].

Projected [BL17a, BL17b, DF05, LZ14, WM07, HNP10, HLZ15a, HLZ15b, HL15b, HLY16, PD18, ZH06].

Projection [BB95c, BB96b, Bor98n, Bor99w, Bor90v, Bor10c, Bor10d, Bor10k, Bor10v, Bor10w, Bor12q, Bor13p, BST13, DLR20, BB93a, BB94a, BBL97a, BLY13, BLY14, BST15].

projections [BBL94, BB95b, BB97a, BBL97b].

promises [Bor94c, Bor94d, Bor94e, Bor95f, Bor95g, Bor95i, Bor95j, Bor95k, Bor95l, Bor96c].

Promoting [BB12-27].

Proof [Bor02, Bor02m, Bor05a, Bor07g, Bor71, Bor77k, BS07, Bor08g, BS08, BB11-31, Bor12-33, Bor16f, Cvi10, GS08, Hl12, Ara07, Ara08, BB08c, BB14j, BB15v, Bor94a, Bor06h, Bor08d, Bor08e, Bor08f, Bor09a, Bor09e, Bor09f, Bor09g, BY12f, Bor14z, Bor16-27, IL09].

Proofs [CS21, Ade13, Gui08, Gui16].

Proper [Bor77c, JN03, Yan94, Zhu91].

properly [Zho12].

Properties [Bor00m, Com18, CPRZ20, BEM10, BTT98, BBT00, Bor82a, Bor90g, Bor90h, Bor90i, Bor90j, Bor90k, Bor90l, Bor90m, Bor90-40, Bor90-41, Bor90-42, Bor90-43, Bor91d, Bor91r, Bor91t, Bor91u, Bor92a, BB01c, BNSW11, Mar91].

Property [GLR18, HDL21, Las18, AK22, BBL97c, BBL99, Bor82e, Bor88j, BF89c, B97, B98].

Prophets [BB15r, BBLZ14f, BBLZ15c].

propose [BBLZ14o].

Proposed [BB08f, BB11w].

Prospects [BB05a, Bor09w, Bor09x].

protein [BT14b, BT14a, BT17].

Prototype [BMP05].

Proving [IL09, HD12].

prox [BEM10].

prox-regular [BEM10].

Proximal [BS06, BS87, BI95, BI96, BG87, BGW97, BGW98].

Proximity [Bor06u, Bor07y, Bor08t].

Pseudo [BBLZ14l, BBLZ14s, BCJW13].

Pseudo-mathematics [BBLZ14l, BBLZ14s].

pseudo-random [BCJW13].

pseudoconvex [QR07].

psorandom [BB13x].

PSLQ [BB09j, SV20].

psychology [BB13d, Bor09y].

Public [BB14a, Bor03g, BB09i, BB11p, BB15m, Bor12-28].

Publication [Bor97i, Bor98a, BS97b].

Publishing [Bor99x, Bor96d, Bor97j, Bor97o].
pursue [BB10h].

Putnam [Bor77d].

puzzles [Bor15a].
QC [KG04], QCQP [PD18], QPQC [Pos13]. Quadratic
[Bor89g, Bor89h, BY06, HLZ15b, HDL21, Bor82b, DF05, La 09, NYW09].

**Quadratically** [BR86c]. Quadrature
[BB06a, BB08d, Bor06j, Bor06k, Bor06m, Bor06n, BY06]. qualification
[BW79b, BW82a, BW82b, BW86]. quality [BB12-44]. Quantitative
[Ano15, BBLZ14p, Koh01]. Quantum [CC20a, Cvi10]. Quartically
[Bai88, Bai16b, TK97]. Quasi [BL92c]. quasiconvex [BBP03]. Quasidense
[Sim18]. quest [BBBP96, BBBP97, BBxxc]. question
[BB14z, BB14-27, MR11]. Questions [Bor03-34]. Quick [BB11x]. Quinn
[BBC09].

R [Bor11-38, Odl11, TSB13]. Rachford
[AB12, ABT13a, AB13, ABT13b, ABT13c, ABT14a, ABT14b, ABT15,
ABT16, AC18, BS10b, BS10c, BS10d, Bor10i, Bor10j, BS11b, Bor11r, Bor11s,
BT13a, BT13b, Bor13j, Bor13r, BT14c, Bor14f, Bor14g, BT15, Bor15g,
Bor15r, BG16a, BLS\(^+\)16, BLS\(^+\)17, BLS\(^+\)18, BG18b, Gill18].

**Rachford**
[AB12, ABT13a, AB13, ABT13b, ABT13c, ABT14a, ABT14b, ABT15,
ABT16, AC18, BS10b, BS10c, BS10d, Bor10i, Bor10j, BS11b, Bor11r, Bor11s,
BT13a, BT13b, Bor13j, Bor13r, BT14c, Bor14f, Bor14g, BT15, Bor15g,
Bor15r, BG16a, BLS\(^+\)16, BLS\(^+\)17, BLS\(^+\)18, BG18b, Gill18].

**Radiometric** [BB10g]. Radon [GLR18]. **Rainfall**
[Bor13k, BHP14, Bor13q, PHBH13, PHB13, PHB14]. Ramanujan
[BB96d, AB15, AAB\(^+\)88, BBB97a, BBG95b, BR01, Bor85b, Bor86f,
BB87a, Bor87g, Bor87f, BB87b, Bor87i, BB88d, BB88f, BB89a, Bor89f,
BB89b, Bor90-29, Bor90-30, Bor90-31, Bor90-32, Bor90-33, Bor90-34,
Bor90-35, Bor90-36, Bor90-37, Bor90-38, Bor90-39, Bor91j, Bor91k, Bor91l,
Bor91l, Bor91m, Bor91o, Bor91p, Bor91q, Bor92e, Bor92f, Bor92i, BB93d,
Bor93m, BBG94c, BB96d, BBB97c, BB00b, BB01f, Bor03d, Bor03e, Bor03f,
Bor04-30, Bor04-29, Bor04-28, BC04, BC04a, BB04b, BL05, Bor05j,
Bor06l, BL08, Bor10x, Bor10z, Bor10-27, Bor11-29, BBGW11, Bor11-30,
Bor11-32, Bor12x, BB16, Bor16d, BB16u, Liu00, Mor08, BB91d].

**Ramanujan-type** [BB87a, BB88d, BL08]. Ramble
[Bor10-28, Bor10-29, Bor11-33]. Rand [BBC09]. **Random**
[BB13c, BN910, Bor10-28, Bor10-29, Bor11-33, BS13, CC20b, Gan14,
BB13b, BB13-40, BB05b, BB97a, BCW13, BCW13, BL05, Bor10e,
BSWZ11, BN911, Bor12b, BSWZ12, BR13a, BS15, BS16b, BS16].

**Randomness** [BBBR16, BBBR17, Gan17]. Range
[Bor04-28, Bor05l, Bor05m, Bor05n, Bor05o, Bor05p, Bor06l, R\(^+\)05, BW81c,
BFKL00, BFKL01, BFL02, Bor03x, Bor03y, Bor06-28]. **Ranking**
[BB04b, BB14-27, BB14-30, Bor10z, Bor14x, Bor14y, Bor16q, Bor16r, Bor16s].

**Rate** [BT17, PLY13, PLY14, BLT15, BLT16, HL15b]. rating [BB11w].
**Ratio** [Ade14a]. Rational [BZ87, BB87b, BZ92, BB98c, BB98d]. Reactions
[BB14q, BB14p]. Real
[ABBB13, Bai91, BCF04, Bor13-28, Bor13-29, Bor90, BB13j, BFG07, BB90d,
BB91b, Bor04-30, Bor10z, Bor14x, Bor14y, Bor16q, Bor16r, Bor16s].

**Real-Parameter** [BCF04]. Realistic [BST13, BST15]. Reality
[Bor05-40, BB12u, BB12n, BB13p]. Really
[BB14i, BB11-28, BB14h, BBLZ14b]. rearrangement [BLZ99, BLZ01].
**Reasoning** [Bor93c, Bor93d, BBG03, Bor03z, Bor03-27, Bor03-28, Bor03-29,
BB04b, Bor04-27, Bor04w, Bor04x, Bor04y, Bor04z, Bor06-29, Bor10a, HF05,
Hoa05, Zei05. Receive [BE16, Bia16a]. recipients [BB14e].
Reconstruction [Bor09-27, Bor92n, Bor93k, BLN94a, BLN95, BLLN95, BLN96, LLC+95, MTCB98]. reconstructions [MTCB99]. Recurrence [BS08, BCM07b]. recurrences [BS15a]. Recursion [BS07]. Reconstructions [BB06b]. Reduced [BB84e]. reduction [BW81d]. Refined [BBFG00, BBFG01, War03]. Reflection
[BST13, BT14b, BT14a, Bor16p, BT17, BST15, Bor15r]. Reflections
[BB09c]. Reflexive [BV94b, BWY11b, BWY12b, Bor93a, BZ94a, BTZ97, BE08, BV10a, Bor13g, Bor13h, Bor13i]. reflexivity [BB90a]. refute [BB12w]. region [SZ16]. regional [YJ12]. registration [HYG09]. Regular
[Bor84d, BBEM10, Bor86c]. regularity [BBL97c, BB98a, BBT98, BB99b, BBL99, BB15s, BBZ96, BLT15, BLT16]. Regularization
[BL11, HLZ15b, ZL22]. regularizations [BV95a]. Regularized
[WSL16, MTCB99, XWQ14]. Regularizing [BW81b]. Regulatory
[Bor02b, BHL16b, BHL16a, BS84b, BB95f, BB01c, BSZ13, BHL17]. relating
[BW97b]. Relation
[Bor09p, Bor09q, Bor10r, BL97, BL00b, BY12b, BY13b]. Relations
[BB90j, Bor80b, Bor02a, BS15b, SV20, BWY10, BWY11e, Bor18b, Bor18d, Bor78a, BCM07b]. relationships [BL91b, BV93a, BV94c]. relative
[BB09i, BB13i, BB13-34, BL92c, BG01, BG03a]. Relaxed
[DLR20, RS02]. Reliability [BB13-32]. Reliable [BBSL20, BB10g, BB14x]. religious
[BB09d]. Remark [Gil18, Osb05]. remarkable [BB11y, BB90b, BB01c]. Remarks
[BG16c, BEO77, Bor81a, BG15c]. remembrance [Bai17e]. Remote
[BLM107, BM07b, Bor09w, Bor09x, BBJ12]. Renaissance [Bai21]. renorming [BF93d, BV95c, BV95d]. replace [BB16s]. replication [Gui17]. Reply [Gan17]. Report [BBC14a, BBL16e, JWDS+14, BBLZ14j, BBL+13]. reported [BB14x]. reporting [BB12f]. reports [Mic03]. representation
[BMS97, BMS99a]. representations [BC98a, BC00]. Representative
[EB08]. Reproducibility [BBL+13, BBS16b, BBR16, BBR17, Gan17, JWDS+14, BB13-32, JWDS+14]. Reproducible
[BB13-35, BB13-36, BBL+13, SBB13, BBLZ15e, Bor13-30, Bor15m]. Res
[Za186]. Research [BB13s, Bor99e, Bor21n, Cam16, PR92, SBB13, BB09d, BB10h, BB13i, BB13r, BBLZ15e, Bor95t, Bor95u, Bor97x, Bor07q, Bor13d, Bor13a, Bor13c, Bor14a, Bor16h, RZ15]. researchers [BW97]. Researching [Bor11g, Bor11-37]. Relaciones [Bou06]. Resolution [BBC09]. Resources [Bor08a]. Respect [Bor77c, Bor74]. Response [Ba012]. restoration [WM07]. Result [Mil89, BBL11x, FK00, Mil90]. Results
[ABT13b, ABT14b, BL93c, BBLN94, Bor96f, Bor96g, Bor96h, Bor07-28, Bor07-29, Bor07-30, Bor07-31, CU14-32, CG18, ABT13c, BB13n, BB13-42, BB13-47, BB14a, BLLN95, BW95b, BB95b, BB96b, BB96c, BB97d, BW97b, BK01, Bor07-27, Bor12r, Bor12k, BY12d, BY14b, Hon85]. Retires [Jac09]. retraction [Bor15c]. Retro [BM07a]. Retro-enhancement [BM07a]. Retrospective [Bor08s]. Reuben [BO11b]. Review
[Abb00, Ask88, Bai91, BB90c, BBLZ14m, Ban10, Ber88, Bor90b, Bor92b, BB93g, BC96, Bor05g, Bor06o, Bor11-38, BS14a, Cas99, Col85]. Hoa05,
Bor13z, Bor13-27, Bor14x, Bor14y, Bor16q, Bor16r, Bor16s. Seeking [BB15k, BB15j]. select [BBGPxx]. selected [BB12z, BB10l]. Selection [Bor12-30, Bor12-31]. Self [Gui17, Ara07, Ara08]. self-contained [Ara07, Ara08]. Self-replication [Gui17]. sell [BB12c]. Semi [Bor83f, Bor89i, Bor79a, Bor81c, Bor83c, BLY13]. semi-algebraic [BLY13]. Semi-finite [Bor89i]. Semi-infinite [Bor83f, Bor79a, Bor81c, Bor83c]. Semialgebraic [CFG +18, BLY14]. semicontinuity [BLZ99, BLZ01]. Semicontinuous [BTZ95, Bor90g, Bor90h, Bor90k, Bor90l, Bor90-40, Bor90-41, Bor90-42, Bor90-43, Bor91d, Bor91r, Bor91s, Bor91t, Bor91u, Bor92a, BT92, BTZ98]. Semigroups [Bor16j, Bor16k, BG15a, BG18a]. Seminar [BBLZ14p, BLM +07, Bor07d, BM07b, BJL +08, BBJ12]. Semiotic [BB09k, BB11z]. Semismooth [Las18]. sense [BBGP95c, BBGP96, JN03]. Sensing [BL17a, BL17b, Bor09c, Bor10h, Bor11p, QYX14, XWQ14]. Sensitivity [BTZ97]. Seoul [HY14]. Separable [BM97f, BM00, Bor95a, Bor95b, Bor02d, Bor02e, BBL04, PD18]. separably [BK83]. separably-finite [BK83]. separate [BB00a, BB01b]. separation [BB84f, BJ97, B998]. September [Bai17a, BB +20, SBW84]. Sequence [BSxx, BL92a]. sequences [BL93a, Bor98d, Bor15d, BC96]. Sequential [BV99x, BF93c, BF95b]. Sequentially [BV94b, Bor93a]. Ser. [BZ02a]. Series [Ber89, BB86a, BB90c, BB92a, Bor01g, Bor05f, BB07c, BB12, BB15c, BB87b, BB88d, BB93d, Bor93o, BB95f, Bor02h, Bor02i, BC02, BC03, BC04b, BCP05, BG05, Bor07e, Liu01, Nim15, XY12]. Serious [Bor07c, BB13]. Serving [Zei05, BBB03]. Session [AMM10, Bea13]. Set [BBS13a, BB13-35, BB13-36, Bor13-30, Bor15m, BZ88, BV95c, BV95d, Zho12, Bor92b]. set-valued [BZ88, Zho12, Bor92b]. Sets [BB14a, BB93b, BT84, Bor06u, Kru18, Moe018, RZ18, BBCR13, BB93a, BB94a, BBL94, BBL97a, BBL97b, Bor81a, BT85, BS86, Bor87m, BS87, BFK91, BL93a, BV94a, BF94b, BF95c, Bor95a, Bor95b, BV96a, BV96b, BM96b, BM98b, BLM99, BLM00, BV04, Bor07y, Bor08t, Bor12g, Bor12h, BLY13, BLY14]. Setting [BBL +13, Bor07z, Gil18, SBB13]. Seven [Bor13-31]. Several [BB86a, Wei15]. Shafrir [Koh01]. Shannon [BH95]. shape [SZ14]. Share [BW95a, BW97a]. Short [BM97b, Bor10-29, Bor11f, Bor11-34, Bor11-35, Bor11-33, Bor150, Bor15p, Bor15q, SQ20, BSWZ11, BNSW11, Bor12b, BSWZ12, BS13, Bor14t, BSV15, Bor15n, BSV16, Bor16e]. show [BB13-27]. Shrum [Bor93a]. Shu [BB95e, IL09]. SIAM [Bor05g, Bor08f, Bor09z]. Siegfried [Bor90b]. signal [Bor90e, Bor90f]. significance [BB14x]. Significance* [Alt20]. Silence [Sol15]. Silicon [F05]. Simon [BC96, BBJ97, Bor06a]. Simple [AW97, BW86, BLS +16, ZSZ16]. simplification [BBK14]. Simpsons [BB13z]. Simulate [Bor13k]. simulated [PHBH12, PHBH13]. Simulation [BHP14, Bor13q, PHB13, PHB14]. Sine [Bor11-36, BB14-32, BB08, Bor00r, Bor01p, Bor01q, Bor01r, BBM01, BBM02, BBL10, BBS12]. sine [BS11a, BBSW11, Bor11f, BS11d, BS11e, BS12b, BBSW12, BS13]. Single [Bor04-31, BZ88]. single-valued [BZ88]. Singly [CPZ20]. singular [BB91d]. Sinh [BY06]. Six [BJJ12]. Size
[BB88a, SI16, KJR16, LW18, LW19, XC11]. Skepticism [BB13-44, BB13-43]. skews [BR14b]. sky [BB93g, Tre13]. Slice [BB93b, BV93a, BV93b, BV94c, BV94d]. Slices [Bor04l, Bor04m, Bor06r]. Sloane [BC96]. sloppy [BB13-33]. Small [BZ87, HMM20, BFK91, BZ92]. Smart [BB12i, BB12-46, BB13-37, BB13-38, Bor12-27]. SMC [Bou06]. smell [BB13-40, BR13a]. Smoothing [HLY16, Li15]. smoothness [BBC00a, BBC01]. soaring [BB15w]. sobering [BBLZ14q]. Social [BB15s, Bor15c, BBLZ15b]. socially [BB11i, BB12-34, BB12-35]. Society [BB16c, Bor88, BB11k, CW16]. softcover [Bor05g, Bor06a]. Software [Bai91, HY14, Bor08q]. Sokal [BB13d]. Solution [BB07b, BB07a, BB09l, BB10k, BB12-47, Bor11-38, BB12-53, BBS14a, MR96, Zho12]. Solutions [AJB86, AI18, ANO^+83, AJ86, BB09m, BL87, BSW82, BSZ^+83, BB85, Bor85a, BN86, Bor93l, BB93c, Bor96j, BDT96, BBS^+97, BMB99, BKL^+93, CJKB92, DAK88, DNG^+86, DBCB88, EWM86, GRM^+97, GC88, KJ86, KC89, KWK^+90a, KWK^+90b, KWK^+90c, LPB01, Mon89, NJS88, NOL86, RSP^+93, Rud89, Sch85, SB87, SH87, SZUM86, Stu90, TB00, UVW^+21, BZ95, BZ96, Yan94]. solved [BB16a]. Solving [AC18, BB95c, BB96b, CPRZ20, AR13, AP16, Bor92k, Bor92l, Bor92m, LW18, LW19]. Some [BEO77, Bor81a, BSW82, Bor85b, BB92b, Bor93o, BBG94c, BB94b, Bor98p, BM99b, Bor99y, Bor99-27, Bor00u, BK01, B01c, Bor03-30, Bor07-27, Bor07-28, Bor07-30, Bor08u, BNSW11, BY12d, BY14b, BG15c, BG16c, Liu01, Lup02, TB80, BB95f, Bor96f, Bor96h, Bor05j, Bor06i, BB11-31, Gui08, Liu00]. sorry [BB13i]. SOS [CFG^+18]. SOS-Convex [CFG^+18]. Soul [BB15i, BB15h]. sound [BB12o]. Source [Ab000, BBB03, Rob06, BB97b, BBS00a, BB04a]. sourcebook [BB16l]. sources [Cam16]. South [HY14]. Space [BB12u, BB12n, BB16m, BB16n, BGM18, Bor78a, BM07d, Bor10c, Bor10d, Bor13e, Bor13f, W17, BB17, BBL94, BB95a, BBL97b, BBW11a, BBW12a, Bor84b, BS86, BFG87, Bor87m, BS87, BG87, BZ94a, BF94b, Bor02d, Bor02e, BBL04, BM07c, Bor07x, Bor13g, Bor13h, Bor13i]. Spaces [BB94b, BFF94b, B95, BBS10, BBEM10, BBC00a, BBC01, BBW11b, BBW12b, Bor81a, BS84a, BF89b, Bor91d, Bor92g, BRS92, Bor92a, Bor93a, BL93a, BB93b, Bor93f, Bor93g, BV94a, BFV94a, BFV94d, Bor94h, Bor94i, Bor94j, Bor94k, BN94, BZ94b, BN94, BZ94b, BB95a, Bor95b, Bor95c, BZ95, BV96a, BV96b, B196, BZ96, BFV97, BV97, B197, BTZ97, BZ97, BJ98, BBL99, BJS00, BLM00, BV00b, BV01, BB01, BJS02, BG03a, BE08, BG09, BGGV09, BV10a, BG15b, BG16b, La 09, QR07]. Sparsity [XC11]. Spatio [CZX21]. Spatio-Temporal [CZX21]. Special [AMM10, AHEL^+17b, BC21, BBBL98c, BBBL99, BBFG00, BBBL01, Bor1-11-29, BS11d, BS11e, AAB12, Bor83c, Bor83f, BBFG01, Bor12t, BL16]. SPECT [BNCB99, BS95, BS97a, Bor02r, LLC^+95]. spectra
Spectral [BMN98, BMN00]. Spectral [BMN98, BMN00].

Spherical [BB16o, BB14j, BKW02, CMK+16, Via16]. Spheres

Spectra [BB12r, BB16d, BB11h, BRxx]. Spheres

Spheres [BLS+17, BLS+18, BLS+16]. Spherical [AX20]. Spline

SBW84]. Sports [BB13h]. Springer [Bor11-38, Tod03]. Square

BB12r, BB16d, BB11h, BRxx]. Spheres

BLS+17, BLS+18, BLS+16]. Spherical [AX20]. Spline

SBW84]. Sports [BB13h]. Springer [Bor11-38, Tod03]. Square

BB12r, BB16d, BB11h, BRxx]. Spheres

BB12r, BB16d, BB11h, BRxx]. Spheres

BB12r, BB16d, BB11h, BRxx]. Spheres

BB12r, BB16d, BB11h, BRxx]. Spheres

BB12r, BB16d, BB11h, BRxx]. Spheres

BB12r, BB16d, BB11h, BRxx]. Spheres

BB12r, BB16d, BB11h, BRxx]. Spheres

BB12r, BB16d, BB11h, BRxx]. Spheres

BB12r, BB16d, BB11h, BRxx]. Spheres

BB12r, BB16d, BB11h, BRxx]. Spheres

BB12r, BB16d, BB11h, BRxx]. Spheres

BB12r, BB16d, BB11h, BRxx]. Spheres

BB12r, BB16d, BB11h, BRxx]. Spheres

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BB12r, BB16d, BB11h, BRxx]. Spheres

BB12r, BB16d, BB11h, BRxx]. Spheres

BB12r, BB16d, BB11h, BRxx]. Spheres

BB12r, BB16d, BB11h, BRxx]. Spheres

BB12r, BB16d, BB11h, BRxx]. Spheres

BB12r, BB16d, BB11h, BRxx]. Spheres

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tails [BCP05, BC10]. **tales** [BBLZ13f]. **Talk** [Bor93u, Bor07v, Bor08l, Bor08m, Bor10u, Bor11x, Bor11y, Bor11z, Bor11-29, Bor16n, Bor16t, Bor89a]. **Talking** [BB12-48, Bor97r, Bor97s, Bor97t, Bor97u, Bor98b, Bor99-28, Bor10-30, Bor12-28]. **talks** [BB14e]. **Tangency** [Bor99w]. **Tangent** [BO76, Bor78, Bor8a, AL10, BB84f]. **Tangential** [BSS85]. **Tanh** [BY06]. **Taylor** [Nim15]. **teaching** [BB10a, BBLZ13h]. **Teacher** [Goo20, Mic03]. **teachers** [BB12-49, BW97]. **Teaching** [AD20, Bor11g, Bor11-37]. **Technical** [Bor16t]. **Technion** [MR92]. **Techniques** [BZ05, Bor94n, BZ99a, GS02]. **technological** [BB12-44]. **Technologies** [J20, PL20]. **Technology** [Bor98e, Bor99f, Bor99d, BS99c, Bor00n, Bor07f, Sc116, BS99a]. **Tegmark** [BB14r]. **Telco** [Bor10-30]. **telelearning** [Bor00w]. **Telstra** [Bor10-30]. **Temporal** [CZX21]. **Ten** [BBKW06, Bor05b, Bor09-30, Bor09-28, Bor09-31, Bor09-29, Bor09-27]. **Tensor** [CZX21]. **tentative** [BB12-34, BB12-35]. **term** [BBLZ14j, BBLZ14i]. **Termination** [HDL21]. **Terms** [BC18b]. **ternary** [Ade10]. **Terry** [A15]. **Tertiary** [Bor11g, Bor11-37]. **test** [BB12o, BB12-36, BB13-27, BB12j]. **Testing** [Alt20, BBLZ13a, BBLZ14r, BB13h]. **tests** [BB11x]. **Texas** [BB13-29, BB13-30]. **textbook** [BB13-29, BB13-30]. **Texts** [Bor88]. **th** [BB84d, Cra12]. **their** [BB13a, Bor88m, Bor89d, Bor95o, Bor95p, Bor14e, RZ15]. **themselves** [BB10a]. **Theorem** [BBWY11a, Bor80b, GN16, TB80, dPB21, Ara07, Ara08, BB13c, BBWY12a, BO11a, Bor79f, Bor80e, Bor81e, Bor81d, BZ86, Bor88g, Bor88h, Bor88i, Bor89c, Bor90m, Bor90n, BW98a, BD03, Bor14z, Bor16-27, Dev9x, Koh01, MW12, OBB+96, Rei02, BB13f, Bor79b, Bor13h]. **théorème** [Dev9x].
Theorems
[Bor99-27, Bor00u, Bor12-31, Bor14j, Bor14k, Bor14l, Bor14m, Bor77b, Bor79a, Bor81c, Bor85c, Bor87m, BT92, BG95a, Bor98o, BY13a, BY14c]
Theoretical [BaO12]. Theories [BB09g, BBG95b]. Theory [AHLC +17a, AHLC +17b, BB15i, Ber88, BB87d, BZ02a, BM07d, Bor09d, Bor12e, Bor12f, BR12, BY12c, Bor12-30, BR13b, Bor16u, Bor16v, Bor16w, Bor16x, Bor16y, Bor16z, BZ02a, DLR20, HMM20, SBW84, Tod03, Wim88, BBC10, BB13-42, BB13-47, BBC14b, BB15a, BB15h, Bor84a, BL92c, Bor94o, Bor09d, Bor12z, Bor13u, Bor13v, Bor13w, Bor13y, Bor13z, Bor13-27, Bor14x, Bor14y, Bor16q, Bor07-31, BB14e, BB93d]

Ther [Bor17b]. there [BB15e, BB12-53, Bor14a]. Theta [Hir17, AB15, AAW06, Bor87l, HGB93, LL01, Liu00, XY12]. Theta-Function [Hir17]. Things [Bor13-28, Bor13-29, BB11f, Bor12z, Bor13u, Bor13v, Bor13w, Bor13x, Bor13y, Bor13z, Bor13-27, Bor14x, Bor14y, Bor16q, Bor16r, Bor16s]. think [BB12-51]. Thinking [BaO12, BB12-52, BB93g, Bor94o]. Third [BBB03]. Thirty [BB05d, BB06c, Bor10-31]. Thirty-two [BB05d, BB06c]. Thompson [Bor07-27]. thousand [BB12-29]. thousand-digit [BB12-29]. threaten [BB12-44]. threatens [BB12-41, BB13-29, BB13-30]. threats [BB10i]. think [BB12-51]. Thinking [BaO12, BB12-52, BB93g, Bor94o]. Third [BBB03]. Thirty [BB05d, BB06c, Bor10-31]. Thirty-two [BB05d, BB06c]. Thompson [Bor07-27]. thousand [BB12-29]. thousand-digit [BB12-29]. threaten [BB12-44]. threatens [BB12-41, BB13-29, BB13-30]. threats [BB10i]. think [BB12-51]. Thinking [BaO12, BB12-52, BB93g, Bor94o]. Third [BBB03]. Thirty [BB05d, BB06c, Bor10-31]. Thirty-two [BB05d, BB06c].
BBWY12c, BB87a, BB88d, Bor91h, Bor92d, BB93d, BH94a, BH94b, BV00b, BV01, BBG04b, Bor05f, BE08, BL08, BEY11, BY12a, BY12f, BY13a, BY14a, BY14c, Gui16, HLZ14, HL15a, Nim15, Wei15, ZS12, Zha13, ZZ14].

typical [BW99, BW01]. Tyrrell [Bor11-38].


ultraproducts [BS15a]. Unbounded [RZ18]. Uncertain [DGLV20, BB12c].

unconsciously [BB10h]. Unconstrained [SI16, AP16, DHSZ06, MP18, NY10, NFB17a, Ray97, WSdSY15, XSW12].

uncovers [Cam16]. Underdetermined [BL94a, BGL93]. Undergraduate [BS99d, Bor00s, BS99b, BS00].

underscores [BB12c]. Understanding [WG17].

Unexpected [BB16p]. Unholy [BB13-44, BB13-43]. unified [Bor77a].

Uniform [BGM18, BH94a, BH94b, BC09, Bor10-29, Bor11-33, BV95b, BV96c, BSWZ11, BSV15, BSV16]. Uniformly [BGHV09, BV12].

Union [Bor01n, Bor01m, Bor02n]. units [BCW13]. Universe [Bor11-31, BB14-29, BB14r]. University [AA+88, BB39g, BBJC97, Bor06o, Bor09b, BO11b, BS14a, EEO8, KG04, SBW84, BWW97].

Unknown [Bor02j, Bor02k]. Unleashed [AH01]. unlimited [ES01]. Unscientific [BB09a]. Unsolvable [BB87c]. unsymmetric [DLL05].

untitled [BB08v, Bor10-32, Bor12-29, Bor15s]. Update [BB15g, BB15f, SD15]. upon [BB13y, BB14c, BB14w]. Upper [CPRZ20, Las18]. Urbana [AA+88].

Urbana-Champaign [AA+88]. US$29.95 [BO11b]. US$57.00 [Bor05g].

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Utility [Roc20].

V [BSW82, Odl11]. Value [Bor99-27, Bor00u, BW98a, Bor98p, Bor99y, Bor99z]. valued [BBP03, BZ88, Zho12, Bor29b]. Values [BZ87, BB96c, BBBL98c, BBBL99, BBK00a, BKL05, Bor10y, BZ11, BS11d, BS11e, BS17, BBBL97, BBBL98a, BBBL98b, BKK00a, BBBL01, BB05c, BC10]. Vanderwerff [How14].

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Variational [A015, BZ94h, BZ97, BMS99b, Bor99u, Bor00v, Bor03-33, Bor04-31, BZ05, Bor06r, Bor06s, Bor06t, Bor06u, BZ06, Bor07a, Bor08j, Bor09-30, Bor09-28, Bor09-31, Bor09-29, Bor09-27, Bor13-34, Bor13-35, BZ13, Bor16z, Geo05, YS00, Bor86g, BP87, Bor87h, Bor87i, Bor87j, Bor90m, Bor90n, Bor97p, Bor98l, Bor98m, BTZ99, Bor99t, BCFR04, Bor09l, Bor10p, Bor13-31, BZ16, Fab89, KPS16, KPS17, LS00, QR07]. Variations [Bor05c, BB05d, Bor10b, Bor10-31, BB06c]. various [BBP97, Bor92g, Bor92h, Bor93f, Bor93g].

vector-valued [BBP03].
Vectors [BSxx, BL92a]. Vera [BO11b]. Verifiable [BZ88]. version [BWB97, Koh01]. versus [BB12a, BB12n]. vertex [KMY00]. very [BB83, Bor14z, Bor16-27]. via [BMCL18, Bor87k, BBT92, BG96a, BG97b, BFW97, BCM02, BCM03, Bor06-30, BBC08a, CZX21, EB08, NFB17b, TB80].

victorious [BB11o]. victory [BB11-28]. view [BB17]. Views [DD15, BS97b, Bor97o, Bor98c]. viii [Bai91]. violence [BB11y].

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Victor Adamchik and Stan Wagon. A simple formula for π. *American Mathematical Monthly*, 104(9):852–855, November 1997. CODEN AMMYAE. ISSN 0002-9890 (print), 1930-0972 (electronic). URL http://www.maa.org/pubs/monthly_nov97_toc.html. The authors employ Mathematica to extend earlier work of Bailey, Borwein, and Plouffe, [BBP97], done in 1995, but only just published, that discovered an amazing formula for π as a power series in 16^{-k}, enabling any base-16 digit of π 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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