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].

\((a, b) \leftarrow \frac{(a+3b)}{4}, (\sqrt{3a} + b)/2\) [BBxb]. \((a, b) \leftarrow \frac{(a+3b)}{4}, \frac{\sqrt{a} + b}{2}\) [BB89b].

\((G)\) [BBL99]. \(1/\pi\) [BB87b, BB88d, BB93d]. 24 [BB16p, 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

[BB16p, Via16]. $99.00 [Bor91b]. [na + b] [Bor91n]. [na + \gamma] [BB93e].

*B [BFG03]. b [BBG04b]. R [DL02]. C^1 [BKW02, BFL02]. W [BL16b]. D_4

[Sol95]. DAD [BLN94]. E_6 [Sol95]. E_8 [Sol95]. \ell_0 [BL11]. \ell_1 [XWQ14].

\(L^\infty\) [Hon85]. \(L^p\) [Bor98g]. L_1 [BL93b, BV97]. L_1(\Omega, \mu) [BF93c]. L_{1/2} [WSL16].
\( L_p [\text{BTBT88, BBL10}]. \) \( n [\text{BB84d}]. \) \( p [\text{BLS}^+16, \text{BLS}^+17, \text{BLS}^+18]. \) \( \pi [\text{AW97, ABBS12, Bai88, BBC}^+11a, \text{BBC}^+12b, \text{BBC}^+12c, \text{Bai16b, BBMW16, BB83, BB84b, BB84c, Bor85b, BB86b, BB86c, BB89a, BB96c, BG97b, Borxx, BB11-31, Bor14p, Bor16m, Gan14, GG07, Gui08, Nim15, TK97, Wei15}]. \)

\( \text{\( q [\text{BBMW11, BBMW13}]. \) \( \sqrt{5} \log \phi [\text{BFG03}]. \) \( \theta(z, q) [\text{HGB93}]. \) \( \text{\( W [\text{BBW96}]. \) \( \text{\( xy + yz + zx [\text{BC00}]. \) \( \text{\( \left( 2^n + 2 \right) [\text{BBB05, BBB06a}]. \) \( \text{\( (4) [\text{BB95d}]. \) \( \text{\( (4n + 3) [\text{AG99, BB97c, Bor97u, Bor97v, BB05f}]. \) \( \text{\( \text{-analogue [PP11]. -ary [BBG04b}. \) \( \text{-elliptic [LL01]. -fold [BBB96b, BB97d]. -function [BKWO2]. -linear [DL02]. -regularized [XWQ14]. -Series [BBB07c, BB15c]. -smooth [BFL02]. -Spheres [BLS}^+17, \text{BLS}^+18, \text{BLS}^+16]. -subgradients [\text{Bor94a}. \) \( \text{\( \text{-trinomial [War03]. -Variational [YS00, LS00}]. \)

0 [\text{BC96, Bor06o}. \) \( 0-12-558630-2 [\text{BC96}. \) \( 0-19-850763-1 [\text{Bor06o}. \) \( 0-691-14247-5 [\text{BO11b}]. \)

1 [\text{Bor06o, Sha05}. \) \( 1-56881-136-5 [\text{Sha05}]. \) \( 1-56881-211-6 [\text{Sha05}]. \) \( 10 [\text{Bai17d}. \) \( 100-\text{Digit} [\text{Bor05-40}. \) \( 100\text{th} [\text{BB13v}. \) \( 11\text{th} [\text{CGM95}]. \) \( 12 [\text{BB12-49}. \) \( 125\text{th} [\text{ABB12}. \) \( 14\text{th} [\text{IEE08}. \) \( 17\text{th} [\text{IEE08}. \) \( 1880-2 [\text{Bor09b}. \) \( 1983 [\text{SBW84}. \) \( 19\text{th} [\text{Hd12}]. \)

2 [\text{BC96}. \) \( 2000 [\text{Tod03}. \) \( 2000\text{j} [\text{BZ02a}. \) \( 2001 [\text{BB12u, BB12n}. \) \( 2002 [\text{KG04}. \) \( 2012 [\text{BBL}^+13]. \) \( 2013 [\text{BS14a}. \) \( 2014 [\text{BBC}^+14a]. \) \( 2016 [\text{BBS17}. \) \( 2017 [\text{Bai17d, BE16}. \) \( 20\text{th} [\text{BB12x}. \) \( 21\text{st} [\text{BB12p, BB12q, BB12-48, BBC}^+14a, \text{Bor03-27, Bor03-28, Bor03-29, Bor03-30, Bor04-27, Bor04w, Bor04x, Bor04y, Bor04z, Bor09r, Bor10a, HF05, Hoa05, R}^+05, \text{Zei05, BB04b}. \) \( 25 [\text{Bai17a}. \)

3/14/15 [\text{BB15t}. \) \( 38 [\text{BZ02a, BZ02b}. \)

4 [\text{Bor81a}. \) \( 4\text{N} [\text{Bor97p}. \) \( 4\text{th} [\text{HY14}]. \)

5 [\text{Sha05}. \) \( 51 [\text{Bor81a}. \) \( 5\text{th} [\text{BF06b}]. \)

60\text{th} [\text{BBB}^+13]. \) \( 6430-6435 [\text{BS}^+83]. \)

7\text{th} [\text{KG04}]. \)

8 [\text{Zal86}. \) \( 80\text{th} [\text{Ano15}. \) \( 85\text{h} [\text{Zal86}]. \)

90\text{d} [\text{BBB97a}. \) \( 978-0-691-1 [\text{Bor09b}. \) \( 978-0-691-14247-0 [\text{BO11b}. \)

978-0-88385-574-4 [\text{Coh15}. \) \( 978-1-56881-271-7 [\text{Odl11}. \)

978-1-56881-410-0 [\text{Ban10}]. \)
\[ [IL09]. \]

A. [BS14b], AAECC [CGM95], AAECC-11 [CGM95], AARMS [Bor05d, Bor05e, Bor07a], Abel [BB13a, Bor03p], A. [BS14b], AAECC [CGM95], AAECC-11 [CGM95], AARMS [Bor05d, Bor05e, Bor07a]. Abel [BB13a, Bor03p]. A. AAECC-11 [CGM95]. AARMS [Bor05d, Bor05e, Bor07a]. Abel [BB13a, Bor03p]. ability [BB11q]. Absence [BS11b, BS10b, BS10c, BS10d, Bor10i, Bor10j, Bor11r, Bor11s]. Absolute [BY84]. Abstract [BW79a, BW79b, BW81c, BW81b, BW82b, BW82a, BW82b]. abundant [BB12-27, BB12e]. Academic [BC96]. academics [BBLZ16d]. Acceleration [BC18b]. Access [Bor04e, Bor04i, BB05e, Bor07d]. accuracy [Bor05-40]. Accurate [BB14i, BB14h, BBLZ14b]. ACE [Bor05-27]. ACEnet [IEE08]. Action [BBCP04, BB84d, BB87b, BB91c, Bor95c, BB98a, Bor03d, Bor03e, Bor03f, Bor04-30, Bor04-29, Bor04-28, BCF04, BC04a, Bor97u, Bor97v, Bor97v]. Advice [Bor03-31]. Ad joint [Ber85a, BB09g]. agree [BB15m]. AI [BBLZ16a]. Aided [BB92b]. al [Gan17]. Alarm [BB12o]. Alexandria [SV14]. Alf [BSZ13]. Algebra [BB12p, BB12q, BB12-48, Bor11-29, CGM95]. Algebraic [KMY00]. Algorithm [AC18, Bai88, BB09j, Bor09c, BS11b, Fin95, WSL16, Bai16b, BB93a, BB94a, BB97b, NC89b, BJMW13, BS10b, BLY13, BLY14, JY12, Kom00, Kom02, Kom04, MP18, Pos13, QYX14, TK97, XSW12, XWQ14]. Algorithms [BB96a, Bor99x, Bor09p, Bor10c, Bor10d, Bor10r, BBC03, BBC11b, BB84b, BB86c, BB98n, BB08b, BL00b, Bor09-29, Bor11i, CGM95, Gui08, Gui16, Gui17, TK97]. Alliance [BB13-44, BB13-43]. Almost [Moo18]. along [BB13-47]. Also [BB16s, BB16x]. Alternating [BB86a, Bor10c, Bor10d, HNP10, BB93a, BB94a]. Alternative [Bor85c, BB95]. always [BB15m]. am [Bor11m, Bor11n]. America [Coh15, BB09n, Bor12u, Bor12v]. American [BC15a, BC16]. Amir [BB15d]. among [BF95a], amongst [Bor94b]. AMS [BE16, Bai16a, Jac09]. Anal [BZ02a]. Anal. [BZ02a]. analogue [PP11]. Analogues [Hir17, BBG93, HGB93]. Analysis [Ano15, ABMMY13, BBKL16, BBKL17, Bor72, BBS89, BB89b, Bor96a, Bor99a, BMS99b, Bor99v, BL00a, Bor00v, BZ05, BM07d, Bor08i, Bor08j, Bor09z, BLY13, BLY14, Bor16j, Bor16k].
Bor16i, BL16a, BG16c, Bor16z, BLT17, Bor17b, Tod03, ABMMY14, BBLZ14q, BBMW17, Bor81b, BS86, BS87, Bor87k, Bor93p, Bor94j, Bor94k, Bor94l, Bor94m, Bor94n, BL94a, BI96, Bor97o, BS97a, BTZ97, BZ97, Bor98k, Bor98l, Bor98m, BZ99a, Bor99u, BL06, Bor06-30, BZ06, BM07c, Bor09l, Bor10p, Bor13-31, Bor13-34, Bor13-35, Bor13-33, BG15a, Bor15f, BLT15, BG15c, Bor16i, BLT16, BL16b, BG18, DLL05, MTCB99, Bor92c.

analytic [Bor93b].

Analytic [Ber88, BB87d, Wim88, Bor91e, Bor91f, Bor91g, Bor91i, Bor91j, Bor91k, Bor91l, Bor91m, Bor92f, Bor92g, Bor92h, Bor98k, BB98a, BZ99a].

Ancient [BB11h, BB12r, BB16e, SV14].

Andrea [BB15u, BB16j].

Andrew [BE16].

Ann [Bor12a].

anniversary [AAB12, IEE08].

Answer [DP18].

anthology [BC15a, BC16].

Anthony [BS14a].

Antisocial [BB15-31].

Antiproximal [Bor81a, BJSM02].

Antiproximinal [Bor81a].

Antisocial [BB15-31].

Answer [DP18].

anomaly [Bor11v].

Answer [DP18].

approaching [BC18b].

Approximation [BG97b, BBB97c, BBB00b, BBB04b, BBB16, BBB97a, BB84d, BB84c, BS85, BS87a, Bor87f, BBB99].

Apples [BB15a, HDG+15, BLY13, BLY14, CGM95].

Approach [BBC+11a, BBC+12b, Bor10h, Bor11p, GN16, Ade12, BTBT88, Bor77a, Bor79d, Bor93b, BM99, BMN00, BMW01, BZ16].

Approaches [Bor09-30, Bor09-28, Bor09-31, Bor12-31, Bor16u, Bor16v, Bor16w, Bor16x, Bor16y, CFG+18, CG18, Geo05, LY18, BBBG08, BB15c, BB16c, Bor79g, Bor86a, BP87, Bor87i, Bor88m, Bor88n, Bor89d, Bor90y, Bor90z, Bor90-27, Bor90-28, Bor94n, Bor95p, Bor95q, Bor95w, BZ96, BZ97, BTZ99, BZ99b, BZ02a, BZ02b, BCFR04, Bor14e, BT14b, RZ15, BS87].

Applied [BB15a, HDG+15, BLY13, BLY14, CGM95].

Approach [BBB+11a, BBC+12b, Bor10h, Bor11p, GN16, Ade12, BTBT88, Bor77a, Bor79d, Bor93b, BM99, BMN00, BMW01, BZ16].

Approaches [Bor09-30, Bor09-28, Bor09-31, Bor09-29, Bor09-27, BaO12, Bor90c, Bor90f].

Approaching [BC18b].

Approximate [BB97b].

Approximating [BB89a, BBG04b].

Approximation [BM07d, Bor13g, Bor13h, Bor13i, Bor79g, Bor91h, Bor92e, Bor13e, Bor13f, Kom00, Kom02, Kom04, SBW84].

Approximations [BG97b, BBB97c, BBB00b, BBB04b, BBB16, BBB97a, BB84d, BB84c, BS85, BS87a, Bor87f, BBB89].

Arabic [BS14b, BS14a].

arbitrary [Ade11, BBM17, BB97b, BB97d, Bor14t, Bor15o, Bor15p, Bor15q].

Arctan [Bor94s, Arc14, Bor14t, Bor14u, Bor14v, Bor14w, Bor15o, Bor15p, Bor15q].

arctan [Bor94s, Arc14, Bor14t, Bor14u, Bor14v, Bor14w, Bor15o, Bor15p, Bor15q].

Arithmetic [BB13q, BB84a, BB91b, BLM97, BB00, BB04a, Bor10-29, Bor11-33, Bor12b, BB11-29, BB15p, Bor87d, Bor88a, Bor88b, Bor88c, Bor88d, Bor88e, Bor88f, Bor89e, BB93, Bor10e, BNSW11, BB16u, Zah06].

Art [BB12u, BB12n, BBLZ13c].

articles [BC15a, BC16].

ary [BBG04b].

aspects [BBBL98a, BBBL98b, Bor12b].

Asplund [Bor93a, BW07, Bor07b].

Assessment [MTCB98].

assets [BCM03].

assisted [BB05a, BB08c, Bor93c, Bor93d, Bor96h, Bor07g, Bor08d, Bor08e, Bor08f, Bor08g, Bor09a, Bor09e, Bor09f, Bor09g, Bor09u, Bor12-33].

Associated [BCLM16, BCLM17, Liu01].

Association [BBZ14p, Coh15, KG04].
Astronomy [Fer91]. Asymptotes [BB93f]. Asymptotic [BBD97, BBD00, BBD04, BBD89, BBD16]. Asymptotics [BL92a, BSxx, Bor07i, Bor07j, BBC07c, BBC08b]. Atlantic [Bor04j, Bor04k]. attractors [BR16]. Aubin [Bor92c]. August [BF06b, BBS17, HY14, SBW84, BS16a]. Australia [Bea13, BB13n, BB13-27, BB13-39, Bai17a, Bor10-30, Bor13d, Bor13a]. Australian [BB12k, BB13m]. Automated [BBK14]. Automatic [Bor87a]. Autour [Dev9x]. average [Zah06]. Averaged [BLT17, BLT15, BLT16]. avoid [BBL16b]. Avoiding [Bor04-32]. Avriel [Bor90b]. away [BB11n, BB11d, BG16a].

B [Ber88, Coh15]. Back [BBLZ13a, Bor11o, Bor11a, PD18]. Back-Testing [BBLZ13a]. Background [BB15t, BJL08]. Backing [Bor06f]. Backtest [BBS16a, BBLZ17, BBLZ14c, BBLZ14b, BBS15a, BBL16b, BBL16a, BBL16c]. backtested [BBLZ14a]. Bad [BB12t, BB12a]. baffle [Bor15a]. Baghdad [SV14]. Bailey [Gar17, Ha05, Odl11, Sha05, Zei05, Bai16a, BJCW13, BCW16, BE16, Fin95, PP11]. Baire [BS84a, BMW99, BMW01]. Balkanica [Bor81a]. ball [BKW02, BS10a]. Banach [Bor81a, BB95a, BC01, BBWY11a, BBWY11b, BBWY12a, BBWY12b, Bor78a, Bor82e, BS83, BS84b, BS86, Bor87n, BS87, BG87, BF89b, Bor91a, Bor92a, Bor92i, BL93a, Bor93f, Bor93g, Bor94j, Bor94k, Bor94l, Bor94m, BF94, BN94, Bor95a, Bor95b, BV96a, BV96b, BZ96, BF97, BV97, BT97, BJ08, BV01, BJS02, Bor02d, Bor02e, BG03a, BBL04, BM07c, BOL07d, BO08, BG09, BGHV09, BV10a, Bor13e, Bor13f, Bor13g, Bor13h, Bor13i, BG15b, BG16b]. bang [BB14m]. barometer [BBLZ16b]. Barrow [BB09g, BB93g, Bor09b]. Bartle [BD03]. Barycentres [TB80]. Barzilai [IP17, RS02, AP16, BL17a, BL17b, DL02, DLL05, DF05, DHSZ06, DAB15, DK16, FN15, FE05, GDT15, GS02, HNP10, HYG09, HD07, HLZ14, HL15a, HLZ15a, HLZ15b, HL15b, HL16, JY12, JD13, KJR16, La 09, LSL11, LZ14, Li15, LL13, Mar91, MR96, MP18, MPB16, NWY09, NWY10, NF17a, NF17b, PT14, Pos13, PD18, QX14, Ray93, Ray97, SI16, SD15, WM07, WsdSY15, WSL16, X08, XSW12, XWQ14, X11, Y12, ZH06, ZSQ10, ZS16]. base [BB11-29]. base-10 [BB11-29]. Based [BB06a, BB08d, Bor06j, Bor06k, SL16, BCW17, FN15, JY12, LS11]. Bases [Zhu91, Ad11, BB95b]. Basic [BMS99b, BBLZ13b, BLY13, BLY14]. Battle [BB15i, BB15h]. Bauschke [Vir14]. BBP [AL10, Ade10, Ade11, Ade12, Ade13, Ade14a, Ade14b, Bor11i, Cha03, GG07, L02, Nim15, Wei15, ZS12, Zha13, ZZ14]. BBP-formulae [Cha03]. BBP-functions [Lup02]. BBP-Type [Ade14a, Ade14b, AL10, Ade10, Ade11, Ade12, Ade13, Ade14a, Ade14b, Bor11i, Cha03, GG07, Lup02, Nim15, Wei15, ZS12, Zha13, ZZ14]. Be [BB14f, BB12-45, BB14g, Bor15n, Bor16e]. beautiful [BB14-30, BB14-31, Bor15n, Bor16b, Bor16e]. Becomes [BB13-44, BB13-43]. been [BB11-29]. Behavior [ABT15, ABT16]. Behaviour [Bor99n, Bor00l, BDT16, BG16a]. being [BB93g]. beispielorientierte [BD11]. Beliefs [Bor09c]. Believing [BB12-33, BB12-32]. Bello [BS14b, BS14a]. bells [BB12o]. Benson
[Yan94, Zho12]. **Berggren** [SV14]. **Bernstein** [SZ14]. **Bertinoro** [ABD03].

**better** [BB16f]. **betting** [BR14b]. **Between** [BB13-44, BB13-43, BV93, BV94a, BR14c, BR14a]. **Beyond** [Bor12o, Bor14p, Bor14s, Bor16o, ES01]. **biconjugate** [BV02]. **biconvex** [Bor86b]. **Big** [BB14e, BB14m, BB15t]. **bigger** [BBWY11d, BBWY13].

**Billion** [BBB97c, BBB00b, BBB04b, BBB16, BBB97a, BBB89, BBxxc].

**billionaire** [BBLZ16d]. **Binary** [Ade14b, Cha03, Ade10, Ade12, Ade13, BBCP04, BG95].

**Binomial** [BBK00, BBK01, BG05, Cos17, GG07].

**bit** [Cra12]. **blank** [Bor11c].

**Blaschke** [B2FG01]. **blessings** [BB11e]. **blue** [Tre13].

**Boltzmann** [BH95].

**Boole** [BCM09]. **boost** [BBLZ13d].

**Bornological** [BFV93a, BFV93b, BF95b].

**Borwein** [Ba91, Ban10, Ber88, BO11a, Coh15, Fin95, Hoa05, KMT16, Odl11, PP11, Sha05, Tod03, Zei05, Ano15, Ano16, Ara07, AP16, BB13v, Bai16a, Bai16c, Bai16d, Bai17a, Bai17b, Bai17c, Bai17d, BL17a, BL17b, BWY10, Bej94, BJCW13, BCJW13, BS17, Bor04n, Bor08s, BE16, CW16, Cha16, Cra04, Cra12, Cvi10, DL02, DLL05, DF05, DMSZ06, DABY15, DK16, Dev19, Fab89, FN15, Flo05, FK00, GN16, GDT15, Geo05, GS02, Gui08, Gui16, Gui17, HNP10, HYG09, Hir17, HC09, HD07, HLZ14, HL15a, HL15b, HL15b, HLY16, IP17, JY12, JD13, JN03, KMY00, Koh01, KJR16, KPS16, KPS17, La 09, LS00, LLS11, LZ14, Li15, Liu01, LL13, MW16, Mar91, Mer15, Mi90, Mi92, MW12, MR96, MP18, MP16, MR11, NW09, NWW09, NW10, NB17a].

**Borwein** [NFB17b, Osb05, PT14, Pos13, PD18, QR07, QXY14, RP09, Ray93, Ray97, RS02, Rei02, SZ14, SI16, SD15, TK97, Tha02, Vir14, WM07, WSdS15, War01, War03, WSL16, XH08, XSW12, XWQ14, XC11, Yan94, YS00, YW12, Zaho06, Zil86, ZH06, ZSQ10, Zha10, Zho12, ZSZ16, Zsh91].

**Borwein-like** [WF16, DABY15, GDT15, Gui17, JD13].

**Borwein-type** [Gui16].

**Boson** [BB13a].

**boundaries** [BS86, BS87].

**Boundedness** [BM06, BF89a].

**Bounded** [BB06a, BB08d, BLL94, Bor06j, Bor06k, BBL99, BC09].

**Box** [BBC07a, BCC10, BBC10, DF05, ZH06].

**box-constrained** [DF05].

**Boys** [BBLZ14m].

**Bradley** [AG99, PP11, Zha10].

**brain** [BB12v, BB12i].

**Brave** [BBB16, BB13-42].

**Bregman-Type** [BB97a, BB01b, BBC03, Bor02b, BRS11, BML18].
Bor14l, Bor14m, Bor15h, Bor16h, LLT18, MTCB99, BBP97, BB10d, BB11j, BB12, BBMW13, BB15c, BB15o, Bai16b, BBMW16, BB16m, Bor90q, Bor90r, Bor90s, Bor90t, Bor90u, Bor90v, Bor90w, Bor90x, Bor93h.

**Computation** [Bor93i, Bor94o, BBxxc, BMN00, Bor10q, BB16u, IP17].

**Computational** [BB09a, BBB13, BBL13, BBBR16, BBBR17, Ber88, BB87d, BB98, Bor99t, BB00, Bor02j, Bor02k, Bor03m, Bor05g, Bor05-37, Bor05-38, GN16, Gan17, SBB13, Wim88, Zei05, BB09e, BB17b, Bor93p, BB98a, BS00, BBG04a, BB10l, BLL95].

**Compute** [BBB97c, BBB00b, BBB04b, BBB16, BBB97a, BBB89].

**computed** [MTCB98].

**Computer** [BB05a, BB08c, BBKL16, BBKL17, Bor92j, BB92b, Bor93c, Bor93d, Bor06h, Bor07g, Bor08d, Bor08e, Bor08f, Bor09d, Bor11-29, Bor14i, Bor14j, Bor14k, Bor14l, Bor14m, Bor14n, Bor15h, BB11o, BB12j, BB12-44, BB13-35, BB13-36, Bor91e, Bor91f, Bor91g, Bor91j, Bor91k, Bor91l, Bor91m, Bor92f, Bor92g, Bor08c, BD09].

**Computer-assisted** [BB05a, BB08c, Bor06h, Bor07g, Bor08d, Bor08e, Bor08f].

**computers** [BB12s, BB12m, BB16f, BB16t].

**Computing** [BBLZ13a, BBB16b, Bor98h, BB01d, Bor01e, Bor02s, Bor02t, Bor03i, Bor04f, Bor04g, Bor04h, Bor05-27, Cal16, IEE08, JWDS+14, Bor92i, Bor92m, Bor92n, Bor98q, Bor03y, Bor03z, Bor05-40, Bor06-28, BS11c, BS12a].

**Conant** [Bai16a, BE16].

**concave** [Bor86b].

**Concavity** [SZ81, Bor90b].

**concept** [BRS11].

**Conditions** [BBY12, BBY14, LY18, Bor82b, BS11c, BS12a].

**Cone** [BW81a, BW81d, BW84f, BS89, BBL99].

**Cone-convex** [BW81a, BW81d].

**Cone-monotone** [BW81a, BW81d].

**Cone-monotone** [BB05a, BB06h, BB07g, BB08d, BB08e, BB08f].

**Cones** [Bor77c, Bor78a, Bor86d, Bor87c, Bor87b, EB08, BO76, Bor78c, Bor80a, BM09, BM10, Zhu91].

**Conference** [Ano15, Bai17a, Be13, HY14, IL09, ABD03, BF06b, KG04, RZ15].

**Confidence** [BBLZ14g], confirm [BB14m].

**conflicted** [BBLZ15d].

**conformation** [BT14b, BT14a].

**confusing** [BB10b].

**confusion** [BR14c, BR14a].

**Congress** [BB05h].

**congruence** [Cos17].

**Conical** [BB09a, BBL99].

**Conjecture** [DP18, Osb05, BB14j, BB14s, Bor94g, BBG96, BW97b, BMS13, BSM13, Cvl10, HC09, RF09, Tha02, War01, War03, Zha06, Zha10].

**conjectured** [ABBS12, BB11-31].

**Conjugate** [BPT84, SI16, BB99b, BBWY11d, BBWY13, BV09, DK16, MP18, WSdSY15, XSW12].

**Conjugates** [BH06].

**conjugation** [BH09].

**Consequence** [Bor79b, Bor81e].

**Consequences** [Bor87c, Bor86d, Bor87b].

**conspiracy** [BB16h, BB16i].

**Constant** [BC09, BBMW11, Bor95s, Bor10x, Bor11-30, BBC97a, BBMW13, BB785, BVW03, BBGW11, Cra12].

**constants** [ADE10, Ade12, BBP97, BB12-40, BBMW17, BBGPxx, GG07, Mer15].

**Constrained** [AI18, BTZ98, DF05, XH08, XCI11, ZH06].

**constraint** [Bor77a, BW82a, BW82b, BW86].

**constraints** [Bor77a, BW81a, PD18].

**constructed** [BB11i, BB12-34, BB12-35].

**Constructible** [BV04].

**Construction** [BBWY11b, BBWY12b, GG07, BGW98].

**Constructions** [BV12, Com18, How14, BV10b].

**Constructive** [BK04].

**contained** [Ara07].

**containing** [BV97].

**continue** [BB15z, BB15y].

**Continued**
[Bor03d, Bor03e, Bor03f, Bor04-30, Bor04-29, BCP05, BvdPSZ14, BCLM16, BHL16b, BHL16a, BCLM17, BBGPxx, BL05, Bor05i, Bor06i, BL08, Bor10z, Bor10-27, Bor11-32, BHL17]. continues [BBxxc, Bor15c].

Continuity [BGM18, Bor82a, Bor87a, BV02, BW05a, BY12e, BY13c].

Continuous [BB95a, BB99b, BW07, BTZ98, BW01]. continuously [BFKL01]. contraction [Bor83b]. Contractive [RZ18]. Control [ANR18, BB15l, BZ94, LY18, NFB17b]. controls [BB15w].

Conundrums [Tre13]. converge [Bor89d].

Convergence [BB93b, BBT85, BL91a, BL93a, BV95a, BBP98, BY06, BST13, BLT15, BLT16, BLT17, Gil18, Lor08, Mar91, AB12, AB13, BB93a, BB90a, Bor88j, BF89c, BL91c, BV93, BV94a, BV94b, BH94, BV95b, BV96c, Bor09-29, BLY13, BLY14, BST15, BL02, HL15b]. Convergent [Bai88, AL10, Bai16b, BB83, Bor94a, TK07]. converges [Bor94a]. converging [BB86c]. converse [BW98].

Convex [ABMMY13, BB96a, BBL97a, BW79a, Bor80b, Bor81b, BT84, Bor87c, Bor90e, Bor90f, Bor90c, Bor90d, Bor91b, Bor91c, Bor93e, Bor95a, Bor95b, Bor96a, BV97, Bor99a, BL00a, BRLZ00, BV01, BL201, Bor01o, Bor02b, BL06, Bor06s, Bor08u, Bor09-28, Bor09-32, BV10b, Bor10k, Bor10-33, Bor11q, BV12, Bor13p, BG15a, Bor15f, BL15, Bor16i, Bor16j, Bor16k, BG16c, BG16d, Bor16u, Bor16w, Bor16x, Bor16y, BG18, BML18, CFG+18, Moo18, AB12, AB13, ABMMY14, BBS10, BBL97b, BL99, Bor79e, BW79b, Bor79a, Bor80e, BW81a, BW81c, Bor81c, BW81d, Bor81d, BW81b, Bor82a, BW82a, BW82b, BPT84, Bor84e, BT85, Bor86c, Bor86a, Bor86b, Bor87a, Bor87k, BP87, Bor88i, Bor89i, Bor90g, Bor90h, Bor90a, Bor90-40, Bor90-41, Bor90-42, Bor90-43, Bor91d, Bor91h, BFK91]. convex

[Bor91q, Bor91r, Bor91s, Bor91t, BZ91, Bor92a, Bor92e, Bor92h, Bor92i, BL92d, Bor92b, BHT92, BL93a, BF93a, Bor93f, Bor93g, BFV94, Bor94c, Bor94i, BN94, BL94a, BF95c, BV95a, Bor95n, Bor95o, Bor95t, BV96c, BLN96, BFV97, BZ98, BMN00, BL00a, Bor00r, Bor01p, Bor01q, Bor01r, BV02, BV04, Bor05-32, Bor05-33, Bor05-34, Bor05-35, Bor05-36, BMV06, Bor06-33, Bor06-30, Bor06-34, BZ06, BM09, BGVH09, BM10, BBY12, BY12a, Bor12p, BLY13, BLY14, BBY14, Bor14o, BY14a, Bor15i, BG15b, BG15c, Bor15r, BG16b, Gil18, NWY09, PD18, WY12, Zhu91, CFG+18, How14, Tod03].

convex-concave [Bor86b]. Convexity

[BB07-28, Bor07-29, Bor07-30, Bor07-31, BS11b, BS15a, BB11a, BBC01, BB01b, BO76, Bor77a, BO78, BS10c, BBFG01, Bor07-27, BS10b, BS10c, BS10d, Bor10i, Bor10j, Bor11r, Bor11s, BY12d, BY14b]. convolutions [BBEM10]. Copulas [Bor13k, PHB12, PHB14]. copyright [BB10b].

Correcting [CGM95]. correlation [BR14c, BR14a]. cosmic

[BB09d, BB11d]. could [BB12j]. Counter [Bor17b]. Counter-examples [Bor17b]. countrerexamples [BV01b, How14]. Counterpart

[BBS8e, BB91c]. Counterparts [BB15s, BBLZ15b]. counting

[BB11e, BB93g]. country [Bor13d, Bor13a]. courses [BB12-44]. crackers

[Bor11o, Bor11a]. Crandall

[BB13h]. crisis [BB12-41, BB12-53]. critical [BKW02]. Crucible [Bor9d, Bor08c, BD09]. Cubic [BB84b, BB88c, HGB93, Hir17, AB15, BB86b, BB90b, BB91c, BBG94b, Bor95c, LL01, Liu00, MP18, XY12]. cultures [Sel16]. Cup [BR14a]. Curiosity [BB12g]. curve [Bor9e, Bor9f]. CUSCOS [Bor9c, Bor9d, Bor9g, Bor9h, Bor9k, Bor9j, Bor0l, Bor9d, BB90b, BB91c, BBG94b, Bor95c, LL01, Liu00, MP18, XY12]. Cubes [Bor04i, Bor04m, Bor06r]. Cyclic [BT13a, BT13b, BB97a, BB97b, BL08, BLY13, BLY14, BT14c, BT15, DHSZ06, HLY1, XSW12, ZHO6]. cyclotomic [HC09].
Dreams [Bor02p]. drive [Bor13c, Bor05-46]. Driven [BC18b]. drug [BB13h]. Dual [BV93, BV94a, BTBT88, BMN00, BS10a]. Duality [BMCL18, BL91b, BF01, Bor09-28, BC10, BL15, Ara07, Bor80d, Bor80e, Bor83a, BK83, Bor83f, Bor86a, BL91d, BL92c, Bor94p, BLN96, BBY12, BBY14, Zäl86]. Dubious [BB14h, BBLZ14b, BB14i]. due [Koh01]. dull [Bor11b, Bor11c]. Dumb [BB13-38, BB13-37]. dummies [BB12-46]. dunce [BB13-39]. during [BBLZ14i, SBW84]. Dykstra [BB94a]. Dynamic [Bor02r, KMZ +03, BNCB99, BS97a, LLC +95]. Dynamical [BC18b]. Dynamics [Bor04-30, Bor04-29, Bor04-28, BK05, BL05, Bor05i, Bor06i, BL08, BLS +17, BLS +18, BBS12, BBCM07b, Bor10q].


Einstein [BB09d, BB16g]. Eisenstein [Liu01, XY12]. Ekeland [Bej94, Bor88g, Bor88h, Bor88i, Bor90m, Bor90n, L00,YS00]. elastic [HYG90]. election [BBLZ14i]. Electron [BBSZ87, BBSZ88]. Electronic [Bor01a, Bor01b, Bor02m, Bor03q, BS97b, Bor79a]. Elementary [AJB86, AN8 +83, AJ86, BB84a, BB97b, BB00, BB04a, CJKB92, DA88, DN86, DBC88, EWM86, GC88, KJ86, KC89, KWK +90a, KWK +90b, KWK +90c].

Ellipses [BLS +17, BLS +18, BLS +16]. Elliptic [BBG08, B84c, BZ87, Borxx, Bor10x, Bor11-30, BBS95b, B92, BBGW11, LL01, PT14]. Engaged [BB16h, BB16i]. engineering [BBC +11b]. engineers [BBW97]. Engines [Bor04p, Bor05k, Bor05m, Bor05n, BBSZ87, BBS88, BBS12-27, BBS12e, BB14k, BB14p, BB15f, BB15u].

Enlargements [BBY11, BBY13]. enough [BB14-28]. entire [Bor02g, BS10a]. Entropic [BL11]. entropies [BGL93, BH94]. Entropy
[BL93c, BLL94, BLN94, Bor97k, Bor01o, Bor05-32, Bor06-33, Bor08p, Bor09v, Bor10k, Bor10v, Bor10w, Bor12q, Bor13k, Bor13p, BHP14, Bor90c, Bor90d, BL91a, Bor91b, Bor91c, BL91b, Bor91h, Bor92e, Bor92o, Bor92k, Bor93e, Bor93k, BL93b, Bor94i, BH95, Bor95u, Bor95o, BLLN95, BLN06, BCM03, Bor12p, PHB12, PHBH12, PHB14]. entropy-like [BL91b].

Entropy-Type [Bor01o]. Entry [BS16a]. Environment [IEE08]. Environments [Bor04e, Bor04d, Bor04i, Bor06d, Bor06b, Bor06c, Bor06g]. Epi [Bor87m, BLM00]. Epi-Lipschitz-like [Bor87m]. epigraphical [BV96c]. episode [BBLZ15g]. equality [Bor77a]. equation [BB13g, BCDZ13, NFB17b]. Equations [AI18, BM97c, BBB97c, BBB00b, BBB04b, BBB16, LY18, BBB97a, Bor86f, Bor87g, Bor87f, BB89a, BBB9, Bor93k, BG94, DLL05, MR96]. Equilibrium [AI18, CG18]. equipped [BBLZ13b]. Equivalence [BMS99b, Zho12, Bor77b, Yan94]. Era [BRR08, BB12-27, BB12e, Ban10]. Erdelyi [FK00]. Erdos [BB13v, Cra12, Mer15]. Ergodic [BG16a]. Error [BB08d, Bor06j, Bor06k, BB13, BB13-31, BLM99, CGM95]. error-correcting [CGM95]. Especially [Bor94h]. essays [BR01]. Essential [BBC01, BB12p, BB12q, BB12-48, BWB97]. Essentially [Bor95d, Bor95e, BM97d, BM97e, BM98a, BM98b]. estimates [BL91a, BL93b]. Estimation [Bor91h, Bor92e, BTBT88, Bor90e, Bor90f, Bor90c, Bor90d, Bor91b, Bor91c, BTBT92]. eta [BG97b, BG97a]. ETFs [BBLZ14a]. Euclidean [Bor84b, La 09]. Euler [BBG94a, BB06a, BB08d, BB089, 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, Bor91l, Bor91m, Bor92f, Bor92g, Bor92j, BBG95c, Bor95f, BB96b, BG96, Bor96f, Bor96g, Bor96h, BB97d, Bor97f, BB97h, Bor98f, BB00, BB004, BB05g, Bor06j, Bor06k, BB06b, BZB08, BCM09, BB16b]. Euler/Zagier [BBB96b, Bor12g, Bor12h, BR16]. Eulerian [BBB15]. Evaluation [BBB96b, BB97d, Bor97f]. Existence [Bor07e]. experiences [Bor08q, Bor12t].
[KMT16]. **Experiment**
[Bor03-27, Bor03-28, Bor03-29, Bor03-30, Bor04u, BB04b, Bor05-30, Bor05-28, Bor05-29, BB08h, Bor10a, HF05, Zei05, Hoa05, Sha05]. **Experimental**
[BBG94a, BB01a, BBB05, BB05b, BBB06a, BBC^+07b, BB09c, BB09a, BB10d, BBBZ10b, BBBZ10a, BBL^+13, BR14a, BB15n, BB15o, BB16d, BB17a, BAI17b, BAI17c, Bor94d, Bor94e, Bor94f, Bor94q, Bor94s, Bor94r, Bor95f, Bor95g, Bor95h, Bor95i, Bor95j, Bor95k, Bor95l, Bor95m, Bor95x, Bor96c, Bor99g, Bor99h, Bor99i, Bor99j, Bor99k, Bor99l, BBGPxx, Bor00b, Bor00d, Bor00e, Bor00f, Bor00g, Bor00h, Bor00i, Bor00j, Bor00k, Bor01h, Bor01i, Bor01j, Bor01k, Bor02j, Bor02k, Bor02a, Bor02l, Bor02m, Bor04t, Bor05a, Bor05p, Bor05q, Bor05-37, Bor05-38, Bor05-41, Bor06m, Bor06n, Bor07l, Bor07k, Bor07m, Bor07n, Bor07r, Bor07s, Bor07t, Bor07u, BB08g, BB10l, BaO12, Bor14h, Bor14i, Bor14k, Bor14l, Bor14m, Bor14n, Bor15h]. **experimental**
[Bor08b, BD09, BD11, Lor09, Odl11]. **experimentally**
[ABBS12, Bor93j, BB11-31]. **Experimentation**
[BB12y, Bor92j, BBGP95a, Bor03l, Bor03m, Bor03n, Bor03o, BBG04a, Bor04q, Bor04r, Bor04s, Bor09h, Bor09i, Bor10l, Bor10m, Bor11t, Bor12-33, Bor12i, Bor13m, Bor13n, BB11j, BB12z, Bor09u, Bor93q, BBGP95b, BBGP96, BC99, Bor08c]. **experimental**
[BB12y, BB16o, BB16u]. **Exploration**
[Bor10l, Bor10m, Bor11t, Bor12-33, Bor12i, Bor13m, Bor13n, Bor14i, Bor14j, Bor14k, Bor14l, Bor14m, Bor14n, Bor15h]. **Exploring**
[Bor01l, KMT16]. **Expansive**
[BB94b, BG03b]. exposes
[BBLZ15g]. **Expressions**
[BSW82, BBK14]. **Extended**
[NWY09, NWY10, BBC14b]. **Extension**
[Cos17, La 09, Bor82e, DABY15, Mil90]. **Extensions**
[Bor10x, Bor11-30, Bor88g, Bor88h, Bor88i, Bor94b, BGV02, BMV06, BBGW11]. extraction
[Ade10, Bor11l]. **Extraordinary**
[Bai16d]. extraterrestrial
[BB11g]. **Extreme**
[Bor06m, Bor06n, GDT15, JD13]. **F**
[Ban10]. **FAA**
[BBS17]. **FAAAS**
[BBS17]. **Face**
[Cal16, Bor96k, Bor97w]. **Facial**
[BW81d]. **Facilitating**
[BBS16b]. facilities
[JY12]. fact
[BBL12f, BB15a]. **factor**
[BBLZ14a]. **Factorial**
[BC18a]. factorization
[HNP10, HLZ15a, HLZ15b, LL13]. facts
[BB11k]. fail
[BW98]. failing
[BB12k]. failure
[Bor92o, Bor93k]. fall
[PD18]. fall-back
[PD18]. fallacy
[BBLZ14a]. **Familiar**
[BB88e, BBxxa]. family
[BB15e, Bor79c, Bor80e]. famines
[BB12-27]. **FAMS**
[BBS17]. **Fan**
[BZ86]. **FAQs**
[BBLZ14c]. far
[BB11n, BB11d]. **Fared**
[BB15r, BBLZ14f]. **Farkas**
[Bor79d, Bor83d]. Fast
[BB84a, BZ92, BLN95, BB97b, BB00, BB04a, BD16a, BH95, BB16u, BD18]. **FAustMS**
[BBS17]. **Favourite**
[Bor07-28, Bor07-29, Bor07-30, Bor08u]. **FBAS**
[BBS17]. **Feasibility**
[ABT13a, ABT14a, ABT15, BB96a, BT13b, Bor16u, Bor16v, Bor16w, Bor16x, Bor16y, ABT16, Bor12p, BT15, Bor15r]. **Feasible**
[JD13, LLS11]. **Feast**
[BB12-27]. **Featured**
[Bor06o]. February
BL16a, Hir17, AL10, AB15, BB15c, BS17, Bor91n, BZ92, BB93e, BLN95, BG97b, BG97a, BBC00, BKV02, BO05c, BC09, BS10a, BBL10, Bor14o, Bor15i, BR16, Bor16l, Bor16m, BD18, HGB93, Liu00, NWY09, SZ14].

Functional [Bor72, BG94, Bor98k, BZ99a, LLC + 95].

functions [BB93b, Bor78b, BK01].

Gâteaux [BF93a, BF93b]. game [BB12d, BB15b, BB15o]. games [BB12s, BB12m]. Gamma

gap [BB14a, BB14b, BB14c, Bor14o, Bor15i]. Garvan [Hir17]. gas

Generisation [BLS+16]. Generalisations [Bor17b]. Generalization

generated [SZ14]. Generating
[BB84a, BB97b, BLM97, BB00, BB04a, Bor87d, Bor88a, Bor88b, Bor88c, Bor88d, Bor88e, Bor88f, Bor99e, BBG93, BB16u, IP17]. **Geometry** [Bor09-27, Bor11u, Bor80a]. **German** [BB96c, BB09f, BB14-28]. **Getting** [BB13n]. **Girgensohn** [Odl11, Sha05, Zei05, Rei02, SZ14]. **Giuga** [BB96c, BD11]. **Global** [AB12, AB13, ABT15, ABT16, BB12c, BB12d, BB12e, BB12f, BB13n]. **globalization** [GS02]. **Glum** [BB13n]. **Glummer** [BB13n]. **go** [BB14e]. **Glenn** [BE16]. **Globalization** [GS02]. **Glum** [BB13n]. **Glummer** [BB13n]. **go** [BB14e]. **Glenn** [BE16]. **Global** [AB12, AB13, ABT15, ABT16, BB12c, BB12d, BB12e, BB12f, BB13n]. **globalization** [GS02]. **Glum** [BB13n]. **Glummer** [BB13n]. **go** [BB14e]. **Glenn** [BE16]. **Globalization** [GS02]. **Glum** [BB13n]. **Glummer** [BB13n]. **go** [BB14e]. **Glenn** [BE16]. **Global** [AB12, AB13, ABT15, ABT16, BB12c, BB12d, BB12e, BB12f, BB13n]. **globalization** [GS02]. **Glum** [BB13n]. **Glummer** [BB13n]. **go** [BB14e]. **Glenn** [BE16].
[BB08a, BB08e, BB08b, BB13q, BB11b, BBB12, BB15p]. **Highend** [Bor03i].

**Higher** [BCC10, AL10, BB84b, BSV15, BSV16]. **Higher-Dimensional** [BCC10]. **Highly** [BB08e, BB09b, Bor03g]. **Hilbert** [BBEM10, BBL97b, Bor05w, Bor08k, Bor09m, Bor10c, Bor10d]. **History** [Bor77d, BJL +08, Bor11x, Bor11y, Bor16n, Sel16, BB16m, Bor90q, Bor90r, Bor90s, Bor90t, Bor90u, Bor90v, Bor90w, Bor90x, Bor93h, Bor93i, BC15a, BC16]. **hits** [BB13m]. **Hölder** [BLT15, BLT16, BGW98, BW03]. **Holdout** [BB13t]. **Homo** [The16]. **Homotopy** [BO11a]. **Honor** [SV14, Ano15, BBB +13]. **Honoris** [Bor99o]. **honour** [Bor17b]. **Honours** [BZ11]. **Hope** [BB14k, BB14l]. **hoping** [Bor01f]. **Hopkins** [BS14a]. **hosted** [IEE08]. **Hot** [BB12c]. **HPC** [Bor04p, Bor05k, Bor05l, Bor05m, Bor05o, R +05]. **HPCS** [IEE08, IEE08]. **HPCS06** [BB06a]. **hull** [BBL99]. **Human** [Cal16, WG17, BB15e]. **humans** [BB13j, BB16f, BB16t]. **hundred** [BBxxc]. **Hurwitz** [BB15c]. **Hybrid** [Bor11f, Bor11-27, Bor11-28]. **Hype** [BB13r, BB13s, BB14l, BB14k]. **hyperbolic** [BB98b, BB98c]. **Hypergeometric** [BBBC07, BBG93, BCP05]. **hypertangent** [BS89]. **hypotheses** [BF89a].

**IBM** [BB11o, Bor11e]. **ICERM** [BBL +13, BBC +14a]. **ICMI** [IL09, Hd12]. **ICMS** [HY14]. **I’d** [Bor11e]. **Identities** [BBB06a, BB05g, Bor071, BBG95a, BB05b, Bor93j, BBG94b, Bor97p, Bor97u, Bor97v, BB06b, Liu00, Liu01, XY12]. **Identity** [BB88c, Bor871, BB91c, KMY00, Liu00, PP11]. **If** [Bor11e, BB11-29, BB13y, BB14c, BB14w]. **II** [BB15a, BB15b, BB15e, BB15f, BS87, BL92d, BLLN95, BLZ01, Bor03c, Bor03o, Bor04-27, BC04a, Bor05-30, Bor06n, Bor06s, Bor07j, Bor08f, Bor10d, Bor10r, Bor10-27, BM10, BBSW11, Bor11-35, Bor12f, BBSW12, Bor12-31, Bor13h, Bor13-35, Bor15h, Kom02, Pea07, War03]. **III** [Bor06b, Bor13i]. **illus** [BB93g]. **image** [HYG09, WM07]. **Imaging** [Sch15]. **Impact** [Bor00n, BB15b, BB15o, BS99]. **implementation** [BJCW13, BCJW13]. **Implication** [Bor05-37, Bor05-38]. **Implications** [Bor04t, Bor05p, Bor05q, Bor08b, BB05b]. **Implicit** [Bor11-38, LY18]. **important** [BB11-27]. **Improved** [BMS13]. **Improvement** [TK97, FK00]. **Imre** [Bor09b]. **IMU** [Bor00a]. **Inaccessible** [BBMW11, BBMW13, BBMW16]. **Inaugural** [Bor93n]. **inborn** [BB11q]. **Inclusions** [BD15, BD16b]. **incomplete** [BB15c, BC09]. **Inconsistent** [BT13b, BT15]. **Index** [BBZ14g, BBZ14a]. **indexed** [OBB +96]. **Indian** [BB09d, BB11h, BB12r, BB16e, Bor91o, Bor91p]. **indicates** [BB10h]. **indicator** [BBZ13e]. **indicators** [BBZ14a]. **individual** [BBZ13b, BBZ14e, BBZ14j, BBZ15b, BBG04b]. **Individuals** [BB15s]. **induced** [Bor93]. **Inequalities** [BSW82, BB93f, Bor99z, Bor99-27, Bor09m, Bor98p, BF01, BG03b]. **Inequality** [Bor84d, Bor05w, Bor08k, Bor77a, Bor86c, Bor93b, Bor98g, BBFG01, Mer15]. **Inexact** [HD07]. **inferred** [BCM03]. **Infimal** [BBEM10]. **infimum**
Infinite [ANR18, Bor92k, BPB99, Bor79a, Bor81a, BK83, Bor83c, Bor83f, BW86, Bor91h, BL91d, Bor92e, Bor92o, Bor93k, Bor94i, Bor95a, Bor95o, BLF02, Bor95v, RZ15]. Infinite-Dimensional [ANR18, BW86]. Infinity [BB91d, Bor15b, Bor16d]. inflationary [BB14m]. information [Bor94i, BLN95, Bor95a, BLN95, BLN96]. informatique [Bor00a]. inhomogeneous [Kom02, Kom03, Kom04]. Initiatives [Bor00a, Bor01a, Bor01m, Bor02a, Bor03i]. Innovation [Bor09b, Bor12n]. Innumeracy [BB11p]. Insight [Bor99i, Bor99j, Bor99k, Bor99l, Bor99m, Bor99n, Bor99o, BLLN95, BLN96]. Inflationary [BB14m]. Inhomogeneous [Kom02, Kom03, Kom04]. Information [Bor94i, BLN95, Bor95a, BLN95, BLN96]. Integrability [BM00]. Integral Integrals [BBC06, BBBC07, Borxx, BCC10, Bor10x, Bor10-28, Bor10-29, Bor11l, Bor11-30, Bor11-27, Bor11-28, BS11a, Bor11-34, Bor11-35, Bor11-33, Bor12s, Bor12-32, BSW13, BBC07a, BCM07a, BBC10, BB10d, BB12-29, BB15, BBS08, BB4dc, BZ92, Bor08o, Bor01p, Bor01q, Bor01r, Bor01c, BBM02, Bor07e, BBC08a, BBGW11, BNSW11, BS13]. integrands [BY12a, BY14a]. integrate [Bor94o]. Integration [BB08c, BB08d, BB09a, BB09b, BB11b]. integrity [BB10c, BB12-28]. Interactive [Bor98j, Bor99p, Bor09-27, BB97]. Interdisciplinary [Bor07q]. interior [BG03a, interiors [BL92e]. International [Bor03q, Bor09r, HY14, IEE08, ABD03, BB12, BB13-27, BF06b, CGM95, AIO15, BB14a, Bor01a, Bor01m, Bor02a]. Internet [Bor91l]. interpolation [Bor98o, intersection [BB199]. Interview [AIO15, BB15a, BB16, Bor12w]. intriguing [Bor93o, BB95d]. Intrinsic [Kru18]. Introduction [Bor07k, Bor02o, Bor07s, Bor07t, Bor07u, Bor09s, Bor09t, Bor09u, Bor11k, Bor11l, Bor13g, BvdPSZ14, Bor08c, BD09, Bor10s, BD11, BS11c, BS12a]. invariance [BLZ01]. invariants [BB09b, BB98c]. invented [BB11r]. inventor [BB12-38]. Inverse [Bor97g, Bor08p, Bor09r, Bor09v, Bor10k, Bor10v, Bor10w, Bor12q, Bor13l, Bor13r, AL10, BBC+11b, Bor92l, Bor92m, Bor92n, Bor12p, BT14b, BT14a]. investigation [BBGPxx]. Investing [BB14a, BB14b, BB14c, BB14d]. Investment [BB13a]. investments [BB15]. Investor [Bor14c]. investors [BB14b, BB14c, BB14d]. Inter alia [AL10]. ISBN [Ban10, BC96, Bor06a, Bor09b, BO11b, CO95, Sha05]. ISBN-10 [BO11b], ISBN-13 [BO11b]. Ising [BB06b, BBC06, BBBC07]. Ising-Class [BBBC07]. Islamic [SV14]. Israel [Bor90b, RZ15]. Issue [AHLC17b, AAB12]. Issues [BL99, Bor00t, Bor03q]. Italian [Bor08a]. Italy [ABD03]. iterated [BR16]. Iteration [BB89b, BBxxb, BT13a, Gill18, AB12, AB13, BB86b, BB90b, BBC93, Bor94a, BT14c]. Iterations [Bor99g, Bor99h, BB93f, BLT17, BB91b, BRS92, Bor93j, BS10c, BS10d, Bor10i, Bor10j, Bor11r, Bor11s, Bor13r, BLT15, BLT16]. Iterative
BBSW11, Bor11f, Bor11-34, Bor11-35, BS12b, BBSW12, BS13, BBC14c, BBC14d, BBC15]. **Main** [BB97d]. **Make** [BB12h, BB12a, BBLZ13b].

**Making** [BBGP95b, BBGP96, Bea13]. **Malaises** [BB93g]. **Man** [BB91d, Bor15b, Bor16d]. **Manage** [Bor12n]. **Management** [Bor06v, Bor06w, Bor06x, Bor06y, Bor07f, ABD03, BF06b]. **Managing** [BS03, Bor09o]. **Mannifolds** [BB98b, BB98c]. **Mann** [BRS92]. **Many** [BB16s, BB15q, BB16r, BR84]. **MAPLE** [Bor89f, Bor90-29, Bor90-30, Bor90-31, Bor90-32, Bor90-33, Bor90-34, Bor90-35, Bor90-36, Bor90-37, Bor90-38, Bor90-39, Bor92d, Bor92j, BL92e, BM97c, Bor06z, BS11c].

**mapping** [BB99a, BM00]. **Mappings** [RZ18, BB95a, BS83, BS84a, BS84b, Bor86b, Bor91d, Bor92a, BM97a, BM09, BM10, Bor11-38]. **Maps** [Bor09-29, GLR18, BZ88]. **March** [BB13v]. **Market** [BB15r, BBSL17b, BBSL18, BBLZ14a, BBLZ14b, BBLZ14c, BBLZ14f, BBLZ14q, BBLZ14i, BBLZ15c, BBLZ16a, BBSL17a]. **Markets** [BBS+16a]. **Mars** [BB12g, BB12-37]. **Martians** [BB12-37]. **Marvels** [Bor02p]. **Massachusetts** [BB13w]. **Master** [Zei05]. **mate** [BB12-36]. **matematica** [BB95b]. **Math** [Bor81a, Bor98j, Bor99d, BL99, Bor01e, Bor01m, Bor02s, Bor02t, Bor03s, Bor06m, Bor06a, Bor07w, Bor08n, Bor08o, BZ11, KMRZ+03, BB10j, BB11q, BB12v, BB12-44, BB12-49, BB13w, BWB97, Bor98r, Bor14b].

**Math.** [Zäl86]. **MathBrowser** [Bor97j]. **mathematic** [BBLZ14g]. **Mathematica** [BS12a]. **Mathematical** [BB08a, BBBZ10b, BB11i, BB11m, BBS, BB14r, BBC+14a, BB15i, Bai16d, Ber88, BB93g, BBGP95a, Bor96d, Bor97h, Bor97i, Bor98e, Bor98s, BB01d, Bor01e, Bor01n, Bor2j, Bor02k, Bor02n, Bor02p, Bor02s, Bor02t, Bor03p, Bor03q, BS03, Bor05-42, BB13w].

**Mathematics** [Zal86]. **MathBrowser** [Bor97j]. **mathematic** [BBLZ14g]. **Mathematica** [BS12a]. **Mathematical** [BB08a, BBBZ10b, BB11i, BB11m, BBS, BB14r, BBC+14a, BB15i, Bai16d, Ber88, BB93g, BBGP95a, Bor96d, Bor97h, Bor97i, Bor98e, Bor98s, BB01d, Bor01e, Bor01n, Bor2j, Bor02k, Bor02n, Bor02p, Bor02s, Bor02t, Bor03p, Bor03q, BS03, Bor05-42, BB13w].

**Mathematicians** [BB12-38]. **Mathematicians** [BB12-38]. **Mathematicians** [BB12-38]. **Mathematicians** [BB12-38]. **Mathematics** [Zal86].
Bor05-51, Bor05-52, BBG06, Bor06z, Bor06v, Bor06w, Bor06x, Bor06y, Bor06-29, Bor06-37, Bor06-38, Bor06-39, Bor07f, Bor07m, Bor07n, Bor07r, Bor07s, Bor07t, BRR08, BB08h, Bor08r, BB08g, Bor09r, Bor10a, Bor12, Bor12s, Bor12z, Bor15j, Bor16g, Bor16-28, DD15, ES01, Fer91, GS08, HDG+15, Ken15, IL09, Bor09, MTB16, Od11, Zei05, ABMMY14, BB01a, BB05b, BBKW06, BB09e, BBZ10a, BB11r, BB11i, BB12z, BB12x, BB12c, BB12h, BB14e, BB14o, BB14-30, BB14-31, BB15b, BB15o, BB15-27, BB16g, BB16f, BB16t, BB17b, Ban10, BB88b, BB91a, Bor99d, Bor90o, Bor90p, Bor94d, Bor94e, Bor94f, Bor95g, Bor95h, Bor95i, Bor95j, Bor95k, Bor95l, Bor95m, BBGP95b.

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Maths [Bor97u, Bor97v].

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[ABT13a, ABT14a, BRxx, Bor13j, Bor14f, Bor14g, Bor15g, Bor16p, HNP10, HLZ15a, HLZ15b, IP17, LL13].
Matrix [ABT13a, ABT14a, BRxx, Bor13j, Bor14f, Bor14g, Bor15g, Bor16p, HNP10, HLZ15a, HLZ15b, IP17, LL13].

Matter [BB09c, BB12-30, Bor10f, Bor10g].
Matters [Bor09u, BB14-30, BB14-31, Bor97u, Bor97v].
Mattingly [Bai16a, BE16].

mature
[Bor94o].
Max [BB14r].
Maximal
[Bor99b, Bor06-30, Bor09j, Bor09k, Bor12y, BD15, BD16b, EB08, Bor82c, BW00, BVV03, BW05b, Bor06-32, Bor07x, Bor10n, Bor12], Bor12k].
Maximality [Bor06-31, Bor06-32, Bor07x, BY12b, BY13b]. Maximally [BY12f, BML18, BBWY11b, BBWY11c, BBWY12b, BBWY12c, BY12b, BY12d, BY12e, BY13b, BY13a, BY13c, BY14b, BY14c].
Maximization [Bor94i, Bor04-32, Bor13-32, BBM00].
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[Bor99q, Bor99r, Bor99s, Bor00p, Bor00q, Bor04v, Bor05-31].

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[BL93c, Bor95n, Bor95o, BLNN95, BLN96, Bor97k, Bor01o, Bor05-32, Bor06-33, Bor08p, Bor09v, Bor10v, Bor10w, Bor12q, Bor13p, BHP14, PHBH12, Bor92o, Bor93k, BL93b, BCM03, PHBH12, PHBH14].
May [BBS17, IEE08, KG04, RZ15, BW97a, BW98, Bor15d].

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[BB84a, BB89b, Bor89g, Bor89h, BB93f, BB97b, BB99z, Bor99-27, Bor99-28, BB7xb, BB00, Bor09n, BB04a, BB11-28, BB13o, Bor87d, Bor88a, Bor88b, Bor88c, Bor88d, Bor88f, Bor89e, BB90b, BBG93, Bor94a, BW98, Bor98p, BB14a, BB16u, IP17].

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[Bor11f, Bor11-27, Bor11-28, Bor11-34, Bor11-35, Bor12-32, BS11a, BBSW11, BS12b, BBSW12, BS13].
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[BB12f, BB15-27, Bor12-28].

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[IEE08, SBW84, Bor06a]. Memoriam [TSB13]. memory [BSZ13]. Merchants [BB11t]. Mersenne [Cha03]. mess [BB13-29, BB13-30]. Meters [BB13-38, Bor12-27, BB12l, BB12-46, BB13-37]. Method [ABT15, BL17a, BL17b, BT13b, BLS+17, BLS+18, AR13, ABT16, AP16, BB97a, BB17a, BS17, BH95, BT15, BLS+16, DL02, DLS05, DKS06, DK16, F15, F16-05, GS02, HYG09, HD07, HLZ14, HL15a, HLZ15a, HLZ15b, HLY16, IP17, KJR16, La 09, LLS11, LZ14, Li15, LL13, Mar91, MR96, MPB16, NWY09, NWY10, NFB17a, NFB17b, PT14, PD18, Ray93, Ray97, RS02, WM07, WsdlSy15, XH08, YW12, ZH06, ZSQ10, ZSZ16]. Methodology [BBGP95a]. Methods [ABT13a, ABT13b, ABT14a, ABT14b, BB88a, BL93c, Bor97k, Bor00t, Bor01o, Bor02b, Bor05-32, Bor06-33, Bor08p, Bor09q, Bor09v, Bor09-27, Bor10k, Bor10v, Bor10w, Bor12q, Bor13k, Bor13l, Bor13p, BST13, Sch15, ABT13c, BB05b, BB10g, Bor92i, Bor92n, Bor94i, BLN95, Bor95m, Bor95o, Bor89k, BZ06, Bor12p, Bor13j, BZ13, Bor14f, Bor14g, BT14b, BT14a, Bor15g, BST15, Bor15r, Bor16p, DF05, GDT15, HNP10, HL15b, JD13, PHBH12]. Metric [BG18, B80, BZ96]. Michel [Bor17b]. mid [BBLZ14i]. mid-term [BBLZ14i]. might [Bor07-27]. million [BB14e]. millions [BB12i]. Mine [BBLZ14]. Mine [BB15q]. mine [BBLZ14]. mine [BBLZ14]. Missing [Bor09c, BB15e]. Misuse [BB09h]. MKM [ABD03, BF06b]. modal [Bor96c]. model [Bor16h, Cam16, ZSZ16]. Modelling [Bor13q, BHP14, PHB13, PHB14, Bea13]. models [BL92d, Cam16]. Modern [Bor09z, BB12-34, BB12-35, BB15b, BB15o, BS11c, BS12a]. Moderne [Bor99c, B99d, B99e, B99f]. Modified [LL13, BS17, XSW12]. MODSIM [Bea13]. Modular [BB97e, BB98b, BB98c, BB98d, BB98e, BB99a, BB99b, BB99c, BB99d, BB99e, BB99f, BB99g, BB99h, BB99i]. moduli [Bor15f, Bor16i]. Monotone [AHL9+17a, AHC9+17b, BBW11d, BBW13, Bor72, Bor02b, Bor4o, Bor05-33, Bor05-34, Bor05-35, Bor05-36, BB06, Bor06s, Bor06t, Bor06-34, Bor06-35, Bor06-31, Bor09-29, BB11, BEY11, BY12c, BBY13, BD15, BML18, EB08, LTT18, Si18, BB95a, BB95b, BB07, BBY10, BBW11b, BBW11c, BBW11e, BBW12b, BBW12c, Bor86b, B989a, B989b, B989c, Bor98n, Bor02d, Bor02e, BBL04, BB05a, Bor06-32, BB07, Bor07b, Bor07x, BB08, BC09, Bor12j, Bor12k, BY12f, BY12b, BY12d, BY12e, BY13b, BY13a, BY13c, BY14b, BY14c, BY15, BD16b, HLZ15a, SZ14]. Monotonicity [Bor09j, Bor09k, Bor12y, BBS15b, BB98b, BBW11c, Bor82c].
Bor06-30, Bor10n, BRS11, Bor12j, Bor12k. Monthly [BB07a, BB12-47, BB09l, BB09m, BB10k, BC15a, BC16, BC18a]. Montreal [KG04]. Moore [BB12-39, BB12h, BB15z, BB15y, Bor15l]. morass [BB10b]. Mordecai [Bor90b]. Mordell [BB12-39, BB12h, BB15z, BB15y, Bor15l]. Morozov [BMCL18]. Mosco [BB90a, BB93b, Bor88j, BF89c, BV93, BV94a]. most [Bor16b]. Motivation [Bor09-30]. motive [BB09d]. Movements [BB13-44, BB13-43]. movies [Bor15b]. MR [Bor81a]. MR0716121 [Zal86]. MR0991866 [BBB97a]. much [BBLZ15d]. Multi [Bor96c, Bor97l, BBM02, Bor97f, Bor16h]. Multi-modal [Bor96c]. Multi-variable [BBM02]. Multidimensional [Bor96f]. Multifunctional [Bor98k]. Multifunctions [Sim18, Bor94b, BF95a, Bor95p, Bor95q, BMS99a]. Multimedia [BMPR02]. Multimodal [Bor97m]. multiobjective [MPB16]. Multiple [BBBL99, BBK00, Bor10y, BZ11, BBBL98a, BBBL98b, BBK01, BBBL01, BC10, BDT16, JY12]. multiple-zeta [BC10]. Multiplier [Bor80b, Bor81d]. multipliers [Bor00r, Bor01p, Bor01q, Bor01r]. Multivariate [HYG09, BL92b]. Museum [BB13-41]. Music [Bor12s]. Musicians [BB16s, BB16r]. My [Bor08q, Bor12t, Bor07-28, Bor07-29, Bor08u, Bor12a]. Mysteries [Bor11-31]. mysterious [BB11-27]. myth [BBLZ13e].

N [BC96, Odl11]. National [Bor05j]. NATO [SBW84]. natural [RP09]. Nature [BB09c, BB15v]. Nearest [BG15b, BG16b, Bor88k, BF89b]. Nearly [Moo18]. Necessary [Bor82b, BTZ98, LY18, BZ88]. need [BB12-30]. needed [BB14o]. needs [Bor13d, Bor13a]. negative [BBWY11e, BY12f, LL13]. negative-infmum [BBWY11e]. Nested [BdB91]. Network [Bor99b, Bor99c]. Networking [Bor98e, BB15-31]. networks [BB12v]. Neumann [BB93a]. Nevanlinna [Bor03p]. Neverending [BvdPSZ14]. Newcastle [Bai17a]. Newfoundland [IEE08, SBW84]. Newly [BB12i]. news [BB12t, BB12a]. Newton [BWB97]. Next [Bor02c, Bor02q, BB16m]. NI [BE08]. Nielsen [BS15b]. Nikodym [GLR18]. NJ [Bor96b]. NMR [BMN00]. No [BB13r, BB13s, BM97b, BB13i, BKW02, Cam16, Zal86, BB12-34, BB12-35]. no. [BZ02a]. Nobel [Bor14b]. Noether [BB12x]. Non [ANR18, Bor72, Bor05-32, Bor06-33, Bor13p, Bor16u, Bor16v, Bor16x, Bor16y, Gil18, AB12, AB13, BBWY11h, BBWY12h, BZ94, BE08, BS10a, Bor15r, LL13, Sel16, BM07c]. Non- [Bor05-32, 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, BZ94, BE08]. Non-Smooth [ANR18, BM07c]. non-Western [Sel16]. nonattaining [BK01]. Nonconvex [ABT15, BC18b, Bor10k, Bor13r, AB16, BZ98, BJ98, Bor12p].
nondifferentiability [BG09]. Nonexpansive [BS83, BS84b, Bor99-29, BRS11]. Nonisolated [AI18]. Nonlinear [BBC09, Bor99a, BL00a, BZ02a, BZ02b, Tod03, BL06]. nonlocal [PT14]. Nonmonotone [BL17a, BL17b, GS02, QXY14, WXQ14, AP16, IP17, Li15, NFB17a, NFB17b, YW12, ZSQ10]. nonnegative [HNP10, HLZ15a, HLZ15b, WM07]. Nonnormality [BB13-40].

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notation [BB11e]. Note [BMCL18, BB86a, BM97b, Bor76b, Bor80d, Bor82d, Bor82c, Bor83d, BF94, Rei02, Tha02]. Notions [Bor06-36, HC09]. Obituary [BBS17]. objects [Bor91h, Bor92e].

Objects [Bor06s, Bor91e, Bor91f, Bor91g, Bor91j, Bor91k, Bor91l, Bor91m, Bor92f, Bor92g, Bor05-33, Bor05-34, Bor05-35, Bor05-36, Bor06-34, Bor06-35]. Observations [BB92b]. odd [BS16b]. odds [BR14b]. Odyssey [BB12a, BB12n]. OEIS [Bor15d, Bor16a, Bor17a]. Official [Bor03-32]. often [Bor15a]. oil [BB12-27, BB12e]. Old [BB14-32, BB12-31, BB12d, BB15q, BB15z, BB15y, Bor15l]. Oliver [BB13k]. once [BB13-47, BB15-28]. One [BBB97c, BBB00b, Bor03-33, BBB04b, BBB16, BB97a, BB89, Bor94b, BF95a, BCR04]. one-dimensional [Bor94b, BF95a]. Online [BB+15a, BS97b, Bor97a, BBLZ14k, Bor01f]. only [BB13-39]. ontological [BB15b, BB15o]. Ontology [DD15, BB15b, BB15o]. Open [Bor88k, Bor03-34, Pea07, BBS13a, BB13-35, BB13-36, BB99a]. openness [Bor87a, BZ88]. Oper. [Zul86]. Operator [BY12c, BBWY11c, BBWY12c, BY12b, BY12d, BY13b, BY14b, BY15, BG16a, KMY00].

Operators [AHLC+17a, AHLC+17b, Bor72, Bor04a, BW06, Bor06t, Bor06-31, BBY11,
BML18, EB08, LLT18, BB99b, BBW07, BBWY11b, BBWY11d, BBWY12b, BBWY13, Bor82a, BPT84, Bor84e, Bor86e, Bor86b, BF89a, BFK91, Bor92o, BT92, Bor98n, BRLZ00, BLZ01, Bor05-33, Bor05-34, Bor05-35, Bor05-36, Bor06a, Bor06-34, Bor06-35, Bor06-32, BW07, Bor07b, Bor07x, BE08, BRS11, BEY11, Bor12j, Bor12k, BY12f, BY12e, BBY13, BY13a, BY13c, BY14c, RZ15.

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P [Bor92c]. PACBB [ZH06]. Pacific [Bai91]. packing [BB14j, BB16p, CKM16, Via16]. pages [Sha05]. pain [BB12v, BB12i].


Pamphlet [BBB03]. Paper [Bor14v, Bor14w, Bor81a, Zal86]. Papers [BB14p, BB14q, Bor11b, Bor11c, Cam16, KG04]. Paradox [Bor04-32, BB15j, BB15k, BB15-29, BB15-30]. Parallel [BB08e, Bor00t, BB09b, BJCW13]. Parameter [BCF04, BC04a, ZSZ16]. parameters [LLC95a]. Parametric [BB06b, Geo05]. Pareto [AR13, Bor80a, Bor83c]. Pari [Bor92d]. Paris [CGM95, Bai17d]. Part [AHLC17a, BB93e, Bor16b, Bor15j, BB15k, BL92d, Bor03m, Bor03n, Bor03o, Bor08e, Bor08f, Bor12c, Bor12f, Bor12-30, Bor12-31, Bor13-34, Bor13-35]. Partial [DP18, Bor74, MR96]. Partially [Bor86b, Bor88i, BL92c, BL92d, BL93b, Bor97o, Bor981, BTZ99, Bor99u, Bor99v, Bor00v]. Partially-finite [Bor88i, BL93b]. partitions [RP09]. Parts [Bor15h]. pass [BB12], BB12-36.

Past [Bor07a, Cam16, Bor08r]. Patents [BB14q, BB14p]. pathological [BBWY11b, BBWY12b]. Paths [Bor03m, Zel05, BBG04a]. pattern [BB16q]. Pau [BB13v]. perfect [Bor80c]. Performance [Bor98h, Bor05s, Bor05t, Bor05u, Bor05v, Bor05-47, Bor05-48, Bor05-49, Bor05-50, Bor05-51, Bor05-52,
polynomial [BH95].

Polynomials [BBKL16, BBKL17, HC09]. Pools [BBLZ14m]. Poor [BB12-44, BBLZ14j]. Poor-quality [BB12-44]. Poorten [BSZ13]. Popper [BBLZ14d]. Portfolio [Bor09o, Bor12n, BBLZ13d, BBL16a, BBL16c]. positive [DABY15]. Possible [Bor07w, Bor07-32, Bor08n, Bor08o, BBxxc]. Possibly [AI18]. postcards [Bor10k]. powers [BC07]. Pp [Ban10, Bai91, Ber88, BB91d, BB93g, BC96, Bor06o, Bor09b, BO11b, Coh15, Odl11, Zei05]. Practical [BL91d]. Practice [BBS16b, BJL]. precedent [BB14b].

Precision [BB08a, BB08e, BB08h, BB13q, BB90c, BL92e, BB92a, BB90c, BB90b, BB12, BB15p, Bor10q]. Preconditioned [MR96]. predict [BB16a]. predicted [BB14m]. prediction [BB14m]. Preface [AAB12, AHLC]. Prefer [BB15t, Bor15k, BC15b, BC15a, BC16]. Preiss [Bej94, Dev9x, Fab89, Geo05, KPS16, KPS17, LS00, QR07, YS00]. Preisses [Bor89c]. preparation [BB12-49]. Prepared [BB15-28]. prescribed [BMW97, BW03]. Presence [Bor99e, Bor99f, Bor99d, Bor16z, Bor13-34, Bor13-35, Bor13-33, BZ13, BLT15, BLT16]. Present [Bor07a]. Presentation [Bor95e, Bor89a]. President [Ano16]. presidential [BB12-42, BB12-43]. Press [BB93g, BC96, Bor06o, Bor09b, BO11b, BS14a]. Previously [BBMW11, BBMW13, BBMW16]. Price [Bai91, Ber88]. prices [BCM03]. primality [Bor94g, BBS99b, Bor07a, Bor07-31, Bej94, BTZ99, BV09].

Probability [BBLZ13a, BBLZ17, BCM03, BB09h, BB12w]. Problem [ABT15, BB07b, BB07a, BB08f, BB09i, BB10k, BB12-47, BD86, Bor13e, Bor13f, Bor13i, WSL16, AT16, BB16p, BW81d, BD89, BGL93, CKM, GDT15, LLS11, PT14, Pos13, Ray97, Via16, Vir14, Zho12]. Problems [AJB86, ABT13a, ABT13b, ABT14a, ABT14b, AC18, AI18, ANO+83, AJ86, BB09m, BB96a, BL87, BC18b, BSZ+83, BB85, Bor85a, BN86, BB87c, Bor93l, BB93c, BLN94, Bor96j, BDT96, BBS+97, BPP99, Bor05b, Bor08p, Bor09c, Bor09v, Bor09-30, Bor09-28, Bor09-31, Bor09-29, Bor09-27, Bor10k, Bor10v, Bor10w, BT13b, Bor13i, Bor13l, Bor16u, Bor16v, Bor16w, Bor16x, Bor16y, BLT17, BKL+93, CJKB92, CG18, DAK88, DNG+86, DBCB88, EWM86, GRM+97, GC88, KJ86, KC89, KWK+90a, KWK+90b, KWK+90c, LBP01, Mon89, NJS88, NOL86, RSP+93, Rud89, Sch85, SB87, SH87, SZUM86, Stu90, TB00, AR13, AP16, BBKW06, BBC+11b, BTBT88, Bor84a, Bor85c, Bor88k, BL91c, BL91b, Bor92i, Bor92m, Bor92n, BZ94, BH94, BL94a, BH95, BZ97, BTZ98, Bor12p, Bor13j]. problems [Bor14f, Bor14g, BT14b, BT14a, BT15, Bor15g, Bor15r, HD07, HLZ14, HLY16, JD13, KJR16, LZ14, Li15, MBP16, NY10, Pea07, PD18, WSDS15, YW12]. Proceedings [Bor96i, IL09, BBJC97, HY14, ABDO3, BF06b, CGM95, RZ15]. process [Bor83a, Zål86]. processes [Bor86a, MTCB98]. processing
Product [BPB99, BB83]. productive [Bor03g]. products [RZ15]. Professor [MW16]. Program [BW79a, BW79b, BW81c, BW81b, BW82a, BW82b, BWB97]. programmed [BB11c]. Programming [Bor01o, Bor05-32, Bor06-33, BL15, TB80, Bor76a, Bor79a, BW81a, Bor81c, BW81d, Bor83c, BW86, Bor87k, Bor88l, Bor89i, Bor90e, Bor90f, Bor90c, Bor90d, Bor91b, Bor91c, BL92c, BL92d, BBT92, Bor93c, BL93b, Bor94i, Bor95n, Bor95o, BBY12, BBY14, DF05]. Programs [CFG+18, Bor79c, BK83, Bor91h, Bor92e]. Progress [BB08b, BB11b, Bor12y, BY12c, BY15]. progresses [Zah06]. Projected [BL17a, BL17b, DF05, LZ14, WM07, HNP10, HLZ15a, HLZ15b, HL15b, HLY16, PD18, ZH06]. Projection [BB96a, Bor98n, Bor99x, Bor09v, Bor10c, Bor10d, Bor10k, Bor10v, Bor10w, Bor12q, Bor13p, BST13, BB93a, BB94a, BBL97a, BLY13, BLY14, BST15]. projections [BB97a, BBL97b]. promises [Bor94d, Bor94f, Bor95g, Bor95h, Bor95i, Bor95j, Bor95k, Bor95l, Bor95m, Bor96c]. Promoting [BB12-27]. Proof [Bor02i, Bor02m, Bor05a, Bor07g, Bor07i, Bor07k, BS07, Bor08g, BS08, BB11-31, Bor12-33, Bor16f, Cvi10, GS08, HD12, Ara07, BB08c, BB14j, BB15v, Bor77b, Bor94a, Bor06h, Bor08d, Bor08e, Bor08f, Bor09a, Bor09e, Bor09f, Bor09g, Bor09h, BY12f, Bor14z, Bor16-27, IL09]. proofs [Ade13, Gui08, Gui16]. Proper [Bor77c, JN03, Yan94, Zhu91]. properly [Zho12]. Properties [Bor00m, Com18, BEM10, BBT00, Bor90a, Bor90g, Bor90l, Bor90i, Bor90k, Bor90j, Bor90, Bor90a, Bor90-40, Bor90-41, Bor90-42, Bor90-43, Bor91d, Bor91q, Bor91r, Bor91s, Bor91t, Bor92a, Bor92b, BB01c, BNSW11, Mar91]. Property [GLR18, Las18, BBL99, BBLZ14f, BBLZ15c]. propose [BBLZ14o]. Proposed [BB08f, BB11w]. Prospects [BB05a, Bor09w, Bor09x]. protein [BT14b, BT14a]. Prototype [BMP05]. Proving [L09, HD12]. prox [BBM10]. prox-regular [BEM10]. Proximal [BS86, BS87, B96, BG87, BGW98]. Proximality [Bor06u, Bor07y, Bor08t]. Pseudo [BBLZ14l, BBLZ14s, BCLZ14]. Pseudo-mathematics [BBLZ14l, BBLZ14s]. pseudo-random [BCJW13]. pseudoconvex [QR07]. pseudorandom [BB13x]. PSLQ [BB09j]. psychology [BB15d, Bor09y]. Public [BB14n, Bor03h, Bor09i, BB11p, BB15m, Bor12-28]. Publication [Bor98a, BS97b]. Publishing [Bor99y, Bor96d, Bor97h, Bor97i, Bor97n]. pursue [BB10h]. Putnam [Bor77d]. puzzles [Bor15a].

QC [KG04]. QCQP [PD18]. QPQC [Pos13]. Quadratic [Bor89g, Bor89h, BY06, HLZ15b, Bor82b, DF05, La 09, NWY09]. quadratically [BB86c]. Quadrature [BB06a, BB08d, Bor06j, Bor06k, Bor06m, Bor06n, BY06]. qualification [BW79b, BW82a, BW82b, BW86]. quality [BB12-44]. Quantitative [An015, BBLZ14p, Koh01]. quantum [Cvi10]. Quartically [Bai88, Bai16b, TK97]. Quasi [BL92c]. quasiconvex [BBP03]. Quasidense [Sim18]. quest [BBBP97, BBx3c]. question [BB14z, BB14-27, MR11]. Questions [Bor03-34]. Quick [BB11x]. Quinn [BBC09].
R [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, Gil18]. radicals [BdB91]. radiometric [BB10g]. Radon [GLR18]. Rainfall [Bor13k, BHP14, PHBH12, PHBH13, PHB13, PHB14]. Ramanujan [BB96c, AB15, AAB12, BB97a, BBC95b, BR01, Bor85b, Bor86f, BB87a, Bor87g, Bor87f, BB87b, Bor87l, BB88d, BB88f, BB89a, Bor89f, BB89, 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, Bor91m, BB91e, Bor91o, Bor92f, Bor92g, Bor92j, BB93d, Bor93m, BB94b, BB96c, BB97c, BB97b, Bor03c, Bor03d, Bor03e, Bor03f, Bor04-30, Bor04-29, Bor04-28, BCFO4, BC04a, BB04b, BL05, Bor05i, Bor06i, BL08, Bor10x, Bor10z, Bor10-27, Bor11-29, BBGW11, Bor11-30, Bor11-32, Bor12x, BB16, Bor16d, BB16v, Liu00, Bor08, BB91d]. Ramanujan-type [BB87a, BB88d, BL08]. Ramble
[Bor10-28, Bor10-29, Bor11-33]. Rand [BBC09]. Random
[BB13c, BNSW10, Bor10-29, Bor11-33, BSW13, Can14, BB13b, BB13-40, BB97a, BCW13, BCJW13, BL05, Bor10e, BSWZ11, BNSW11, Bor12b, BSWZ12, BR13a, BSV15, BS16b, BSV16, BS16a]. Randomness [BBBR16, BBBR17, Can17]. Range
[Bor04p, Bor05k, Bor05l, Bor05m, Bor05n, Bor05o, Bor06l, R+05, BW81c, BFKL01, BFL02, Bor03y, Bor03z, Bor06-28]. Ranking
[BBSL17b, BBSL18, BBSL17a]. rapid [BBP97]. rapidly [AL10, BB83]. Rate
[BLT17, BLY13, BLY14, BLT15, BLT16, HL15b]. rating [BB11w]. Ratio
[ADE14a]. Rational
[BZ87, BB87b, BZ92, BB98b, BB98c]. Reactions
[BB14q, BB14p]. Real
[ABBB13, Bai91, BCFO4, Bor13-28, Bor13-29, Lor90, Bor13j, BFG87, BB90d, BB91b, Bor04-30, Bor10z, Bor14x, Bor14y, Bor16q, Bor16r, Bor16s]. Real-Parameter
[BCF04]. Realistic
[BST13, BST15]. Reality
[Bor05-39, BB12u, BB12n, BB13p]. Really
[BB14i, BB11-28, BB14h, BBLZ14b]. rearrangement [BLZ01]. Reasoning
[Bor93c, Bor93d, Bor03-27, Bor03-28, Bor03-29, Bor03-30, BB04b, Bor04-27, Bor04w, Bor04x, Bor04y, Bor04z, Bor06-29, Bor10a, HF05, Ha05, Ze05]. Receive
[BE16, Bai16a]. recipients [BB14c]. Reconstruction
[Bor09-27, Bor92o, Bor93k, BLN95, BLN95, BLN96, LLC+95, MTCB98]. reconstructions [MTCB99]. Recurrence
[BS08, BB09]. recurrences [BB14a]. Recursion
[BS07]. Recursions
[BB06b]. Reduced
[BB84e]. reduction
[BW81d]. Refined
[BBFG01, War03]. Reflection
[BST13, BT14b, BT14a, Bor16p, BST15, Bor15r]. Reflections
[BB09c]. reflexive
[BBWY11b, BBWY12b, Bor93a, BZ94, BTZ97, BE08, BV10a, Bor13g, Bor13h, Bor13i]. reflexivity
[B90a]. refute
[BB12w]. region
[ZS16]. regional
[CY12]. registration
[HYG09]. Regular
[Bor84d, BBEM10, Bor86c]. regularity
[BB99a, BBL99, BBTO0, BZ88, BF94, BZ96, BLT15, BLT16].
S [Tod03]. S. [Bor91o, Bor91p, Bor93m, Bor81a]. Sad [BB10j]. saddle [HD07]. Salamin [Borxx]. salt [BF06a]. same [BB99b, BW97a]. sample [BBLZ14s, KJR16]. sampler [BG15a, BG18]. San [BC96]. Sandwich [Bor80b, BT92, Bor98o, Bor81d]. sandwiched [BF01]. Sank [Bor11-36, BBS12]. Santalo [BBFG01]. Sapiens [Thé16]. Satire [Bor07c]. say [BB12-50]. Scale [JWDS+14, DF05, Ray97, WM07, XH08, ZSZ16]. scales [PHBH13]. scaling [WSdSY15]. scary [BBLZ14n]. sceptics [BB12d]. Schaible [Bor90b]. Scheme [BT13a, BT14c]. Schemes [BB08d, Bor06j, Bor06k]. scholars [Bor03g]. School [BB12k, BWB97]. Sciences [Bor98e, Bor07o, Bor13m, Bor13n, SV14]. Scientific [BB13s, BB13-33, BB13-34, BBS16b, Bor04i, BB09d, BB10c, BB11s, BB11f, BB12-28, BB12-30, BB13l, BB13r, BB15m]. scientist [BB09h]. Scientists [BB12-45, BB12b, BB15q, BB16h, BB16i, BB16o, BWB97]. SCIHTBB [XC11]. Scissors [Bor14v, Bor14w]. score [BB12-45]. scores [BB12o, BB13-27]. Scribner [BB91d]. search [FN15, IP17, YW12]. Searching [BB96b, BB05c]. Seasonal [BHP14, Bor13q, PHB13, PHB14]. SEC [BBLZ14o]. Second [BN94, EB08, ABDO3, Bor92i, Bor93f, Bor93g, FB93b]. second-order [BF93b]. Security [BB15s, BBLZ15b]. Seeing [BB12z, Bor13-28, Bor13-29, Bor13m, Bor13n, SV14]. self-contained [Ara07]. Sensing [BL17a, BL17b, Bor09c, Bor10h, Bor11p, QXY14, XWQ14]. Sensitivity [BTZ97]. Seoul [HY14]. Separable [BM00, Bor95a, Bor95b, Bor02d, Bor02e, BBL04, PD18]. separably-infinite [BK83]. separate [BB01b]. separation [BB84f, BJ98]. September [Bai17a, SBW84]. Sequence [BSxx, BL92a]. sequences [BL93a, Bor98d, Bor15d, BC96]. sequential [BF95b]. sequentially [Bor93a]. Ser. [BZ02a]. Series [Ber88, BB86a, BB90c, BB92a, Bor01g, Bor05f, BB07c, BB112, BB15c, BB87b, BB88d, BB93d, Bor93o, BB95d, Bor02h, Bor02i, BC03, BC04b, BCP05, BG05, Bor07e, Liu01, Nim15, XY12]. Serious
Serving [Zei05]. Set [Bor07c, BB13j]. **Serving** [Zei05]. session [Bea13]. Set [BBS13a, BB13-35, BB13-36, Bor13-30, Bor15m, BZ88, BV95b, Zho12, Bor92c].

**set-valued** [BZ88, Zho12, Bor92c]. Sets [BB93b, BT84, Bor06u, Kru18, Moo18, RZ18, BCCR13, BB93a, BB94a, BBL97a, BBL97b, Bor81a, BT85, BS86, Bor87m, BS87, BFK91, BL93a, BF94, BF95c, Bor95a, Bor95b, BV96a, BV96b, BM08b, 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]. shape [SZ14]. share [BW97a]. Shen [Zho12]. Shu [BB95c, lL09]. SIAM [BB08f, Bor05-40, Bor09z]. Siegfried [Bor90b]. signal [Bor90e, Bor90f]. signiﬁcance [BB14x]. Silence [Sol15]. Silicon [Zei05]. Simon [BC96, BBJC97, Bor06a]. Simple [AW97, BW86, BLS+16, ZSZ16]. simpliﬁcation [BBK14]. Simpsons [BB13z]. Simulate [Bor13k]. simulated [PHBH12, PHBH13]. Simulation [BHP14, Bor13q, PHB13, PHB14]. Sinc [Bor11-36, BB14-32, BBS0, Bor00r, Bor01p, Bor01q, Bor01r, BBS0, BMM02, BBL10, BBS12]. sine [BS11a, BBSW11, Bor11f, BS11d, BS11e, BS12b, BBSW12, BS13]. Single [Bor04-31, BZ88]. single-valued [BZ88]. singular [BB91d]. Sinh [BY06]. Six [BBJ12]. Size [BB88a, SI16, KJR16, XC11]. Skepticism [BB13-44, BB13-43]. skews [BR14b]. sky [BB93g, Tre13]. Slice [BB93b, BV93, BV94a, BV94b]. Slices [Bor04l, Bor04m, Bor06r]. Sloane [BC96]. sloppy [BB13-33]. Small [BZ87, BFK91, BZ92]. Smart [BB12I, BB12-46, BB13-37, BB13-38, Bor12-27]. smell [BB13-40, BR13a]. Smooth [ANR18, Bor09v, Bor00v, YS00, Bor06g, BP87, Bor87h, Bor87i, Bor87j, Bor90m, Bor90n, BF93c, Bor94j, Bor94k, Bor94l, Bor94m, B96, BZ96, BM97d, BM97e, Bor97o, BM98a, BM98b, Bor98l, Bor98m, BTZ99, Bor99a, BFL02, LS00, LS11, BM07c]. Smoothing [HLY16, Li15]. smoothness [BB01]. soaring [BB15w]. sobering [BB13-40]. Social [BB15s, BB15t, BBLZ15b]. socially [BB11i, BB12-34, BB12-35]. Society [BB16d, Ber88, BB11k, CW16]. softcover [Bor06a]. Software [Ba91, HY14, Bor08q]. Soka1 [BB13d]. Solution [BB07b, BB07a, BB09l, BB10k, BB12-47, Bor11-38, BB12-53, BBS14a, MR96, Zho12]. Solutions [AJL86, AI86, ANO+83, AJ86, BB09m, BL87, BSW82, BSZ+83, BB85, Bor85a, BN86, Bor93c, Bor96i, DT96, BBS+97, BPB99, BKL+93, CJKB92, DAK88, DNG+86, DBCB88, EWM86, GRM+97, GC88, KJ86, KC89, KWK+90a, KWK+90b, LPB01, Mon89, NJ88, NOL86, RSP+93, Rud89, Sch85, SB87, SH87, SZUM86, Stu90, TB00, BZ96, Yan94]. solved [BB16p]. Solving [AC18, BB96a, AR13, AP16, Bor92l, Bor92m, Bor92n]. Some [BE077, Bor81a, BS82, Bor85b, BB92b, Bor93o, BBG94b, BB94b, Bor98p, BM099b, Bor992, Bor99-27, Bor99-28, Bor00u, BK01, B01c, Bor03-31, Bor07-27, Bor07-28, Bor07-29, Bor08u, BNSW11, BY12d, BY14b, BG15c, BG16c, BG16d, Liu01, Lupo2, TB80, BB95d, Bor96f, Bor96g, Bor96h,
Bor05i, Bor06i, BB11-31, Gui08, Liu00]. **sorry** [BB13i]. **SOS** [CFG+18].

**SOS-Convex** [CFG+18]. **Soul** [BB15i, BB15h]. **sound** [BB12o]. **Source** [Abb00, Rob06, BBB97b, BBB00a, BBB04a]. **sourcebook** [BB16m]. **sources** [Cam16]. **South** [HY14]. **Space** [BB12n, BB12g, BB16o, BM18, Bor78a, BM07d, Bor10c, Bor10d, Bor13e, Bor13f, WG17, BB17b, BB95a, BBL97b, BBWY11a, BBWY12a, Bor94b, BS66, BFG87, Bor87m, BS87, BZ94, BF94, Bor02d, Bor02e, BBL04, BB07c, Bor07x, Bor13g, Bor13h, Bor13i]. **spaces** [BB810, BBEM10, BBWY11b, BBWY12b, Bor81a, BS84a, BF89b, Bor91d, Bor92a, Bor92b, BRS92, Bor93a, BL93a, Bor93f, Bor93g, BFV94, Bor94c, BV94b, Bor94j, Bor94k, Bor94l, Bor94m, BN94, Bor95a, Bor95b, Bor95t, BV96a, BV96b, B96, BFV97, BV97, BTZ97, BZ97, BJ98, BL00, BV01, BJS02, BG03a, BE08, BG09, BGV09, BV10a, BG15b, BG16b, La 09, QR07].

**Sparsity** [XC11]. **Special** [AHLC+17b, BBB19, BBBL01, Bor11-29, BS11d, BS11e, BL16a, AAB12, Bor83c, Bor83f, BBE01, Bor12t, BL16b]. **SPECT** [BNCB99, BB97a, Bor02r, LLC+95]. **spectra** [BMN00].

**Spectral** [Bor87k, BBT92, BTBT88, Bor90c, Bor90d, Bor91b, Bor91c, BRLZ00, BLZ01]. spent [Bor10-30]. **Sphere** [BB16p, BB14j, BKP02, CKM+16, Via16]. **Spheres** [BLS+17, BLS+18, BLS+16]. **spin** [BBCM07a]. **Spline** [SBW84].

**Sports** [BB13h]. **Springer** [Tod03]. **Square** [BB12r, BB16e, BB11h, BRxx]. **Squares** [Bor01g, Bor02h, Bor02i, BC03, BC04].

**Srinivasa** [BB96c, Bor10x]. **St** [IEE08]. **Stability** [AI18, Bor84d, Bor86c, BM09, BM10, BW81a, BS97a, MTCB99]. **Stage** [Bor07a]. **Standing** [JWDS+14]. **Starshape** [BE07, BE077, Bor78c]. state [BB10j]. **Static** [BBS87, BBSZ88]. **Statistical** [BSW82]. **Statistically** [Gan14].

**Statistics** [BB09a, BB15l, BB09e, BB11f, BB15w]. **stauch** [BW05b]. **steep** [RH02]. **Steiner** [BO11b]. **Step** [BB88a, BS13, SI16, Bor10e, SD15, XC11]. **Stephen** [BB10e]. **steplength** [Pos13, Ray93, XSW12]. **stepsize** [DABY15, MP18].

**Still** [Bor01e, Bor02s, Bor02t, BB13y, BB14c, BB14w, BB14-28]. **Stochastic** [BLN94, SD15, HLZ14, HL16, KJR16, LLS11, LZ14, Li15]. **Stock** [BB16a, BBL16c, BBLZ14i, BBLZ16a]. **stocks** [BB13]. **Stoneham** [BB12-40]. stop [BB12f]. **Story** [Bor94h, Bor09z, Bor90o, Bor90p]. **Strange** [BB90c, BB92a]. **Strategies** [BB13a, BBC98, BBC00]. **STRAW** [BB11v].

**Street** [BB97d]. strict [BBC01]. strictly [Bor95d, Bor95e, NW09, PD18]. **Strogatz** [BB09]. **Strong** [BB09, BL04, BBT00, Bor80e, Bor12x]. strongly [Bor78b]. **Structure** [BY12e, BY13c, BB16c]. students [BB97].

**Studies** [SV14, BW97]. Study [BBBR16, BBBR17, Bor88, BB87d, Bor05f, Bor11f, Bor11-27, Bor11-28, Gan17, IL09, SW94, Wim88, BB98a, Bor05-40, H12]. **Stuff** [Bor00j, Bor00k]. **Stupid** [BB13-39]. **Style** [BB11-29]. **Subderivatives** [Bor88m, Bor88n, BZ96, BB97, BG98]. **Subdifferentiability** [BW01, Fab89, BP87]. **Subdierential** [Las18, BW97a, BM97a, BZ98, BZ99b, BM00, BZ02a, BZ02b, BS10a].

**Subdierentials** [BFG03, BBEM10, BW99, BW00, BM01, BGV02,
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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 \( \pi \) as 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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