# A Bibliography of Publications of Derrick Henry Lehmer

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**Abstract**

This bibliography records publications of Derrick Henry (D. H.) Lehmer (1905–1991).

## Title word cross-reference

**#5546** [Bri82].

(0, 1) [Leh81b]. $(p-1)! \equiv -1 (\mathrm{mod} p^2)$ [Leh37f]. 0 [LMv86]. 1 [Jag63, LMv86]. 2 [Uhl49b]. $200 < p < 521$ [LM78a, LM78b]. $2^k$ [Jar06]. $2^m \pm 1$ [BLS75, Bri82]. $2^n \pm 1$ [Kra52, Leh33f, Leh47a]. **$3.95** [Leh49a]. 449! [Uhl55]. 49 [Leh51b]. **$6.00** [Leh41a]. 64 [DH97b]. 751! [Uhl55].
$b = 2, 3, 5, 6, 7, 10, 11, 12$ [BLS$^+$83b, BLS$^+$88b, BLS$^+$02]. $b^n \pm 1$ [BLS$^+$83a, BLS$^+$83b, BLS$^+$88a, BLS$^+$88b, BLS$^+$02].
$b^n \pm 1, b = 2, 3, 5, 6, 7, 10, 11, 12$ [W.85]. $h^*(p)$ [LM78b]. $h^*(p)$ [LM78a]. $I_n(X)$ [Leh44a]. $J(\tau)$ [Leh42a]. $k$ [Liu09, MW16, Ren09]. $L$ [Rot82]. $\Lambda$

[COSV93, CSV94a]. $m^2 = n! + 1$ [Leh37a, Leh37c]. $n$ [Leh36e, Leh40a, Leh50, ZG98]. $O(n^{1/10.89})$ [AL81]. $p$ [DMPP19, GZ01a, Gao03, Gre78, Leh30c, Loo83, PGCN20]. $\phi$ [Leh76a]. $\pi$ [Aki90, Leh38d, NS84, NJ55, SW62]. $\pi(x)$ [DR96, LMO85]. $\psi$ [Ram85, Ram88]. $Q$ [Rot82, PP51, WGH96, WHG96, Zha94b]. $Q(\sqrt{D})$ [WB79]. $r$ [Leh30b, ZX09]. $t^2 - p^2Du^2 = 1$ [Leh26d]. $\tau(n)$ [Leh43a, Leh47c, S.70]. $x^3 + y^3 + z^3 = 1$ [Leh56c, New57a]. $x^x$ [Leh85c]. $\xi$ [CSV94b]. $Z$ [Sim18].

**-adic** [Gre78, Loo83]. **-Ary** [Leh36e]. **-bit** [DH97b]. **-dimensional** [Leh40a, Leh50]. **-free** [Ren09]. **-function** [CSV94b, Sim18]. **-Funktion** [Leh76a]. **-groups** [DMPP19]. **-Klassenzahlen** [Leh76a]. **-Lehmer** [MW16]. **-product** [Ram85, Ram88]. **-th** [Leh30b, ZX09]. **-tuples** [Liu09].

**10018a** [Bri83a, Bri83b]. **17** [Leh63c]. **1949** [Ano51]. **1954** [Mey56]. **1957** [Mac59]. **1982/83** [CS83]. **1992** [VRP92].

**20s.** [Leh36a]. **21** [Bri83a, Bri83b]. **25** [Swi72]. **280** [New57a]. **29** [Bri82]. **298** [New57b]. **2nd** [Leh79].

**30th** [VRP92]. **32** [LM78a].

**4** [SS74]. **42** [CS83]. **43** [Leh71d].

**50th** [Gau94]. **52** [Bri82]. **56** [Leh71e].

**84a** [CS83]. **84f** [Bri83a, Bri83b]. **87e** [Kle90].

**90c** [Cal89]. **93** [Kle90]. **'95** [Lev95, Cal89].

**=** [Mac59].

**A.** [Leh37d]. **Abelian** [Leh32f]. **abelien** [DP08, DP08]. **Absolute** [Leh39c]. **Acta** [CS83, New57b]. **Addendum** [LM78a]. **adic** [Gre78, Loo83]. **Adjacent** [Leh65b]. **Advanced** [AJD55, AJL57, AL38, BS56, BB55, BL63, Bel44, BG56, CL55, Cou38, ES79, Erd37, EL39, Erd43, ES44, ER55, EVWK56, EP58, Erd59, Erd62, FP61, Fun63, GJ38, Goh55, Gol54, GHL55, GR39, Goo50, IM57, KW79, KH55, KC57, KCD+77, KL79, LAC+36, LB38, Leh39e, Leh48c, LK50, Leh55b, LC56, LR57, Lor55, Mak62, MC63, MS63, MS39, MG39, NB63, RHSW55, RG56, San48, SK50, SCB+54, SK55, SM79, SG44, Thé39, TG40, Thé44, TP40, UC63, WBL44, WR50, WLE+37, yWM56, WT63, Wei55, WI56, WH57]. **advantages** [Leh83a]. **after** [EEW00]. **Algebraic** [Leh33b, Leh33e, Lev95, Mou01, FM13]. **Algorithm**

[AL81, DV04, GM78, Jeb95, Leh38c, Leh38f, WB79, Sed01, Sor95]. **Algorithms** [WJ76, Wat77, Leh72a]. **aliquot** [GLSW74]. **all-purpose** [Leh53a]. **Amer** [Cal89, Kle90, Leh71d, Leh71e]. **Amicable** [Esc46]. **among** [WHG96]. **analiz** [Gol65]. **Analogue** [Leh30c, Leh32f, Leh38b, SS74]. **analogues** [TCY15]. **Analysis** [DV04, Dys43, Leh60b, Sor95]. **ancient** [Gra13]. **Andrews** [EZ19, EZ21]. **Andrews-inspired** [EZ19, EZ21]. **Anniversary** [Gau94]. **Annual** [VRP92]. **anyone** [LL62a]. **Application** [Leh26c, BŻ19, Leh38a, LLV54]. **Applications** [Leh56e, Leh13, DH97a, PGCN20, PP51]. **applied** [Leh39b, Leh45, Leh69b]. **Approach** [How89, Leh88b, Cal89]. **Approximations** [Leh50, BB87]. **April** [VRP92]. **Arabian** [Uhl49a]. **arc** [Tod49]. **Arccotangent** [Leh38d]. **area** [Leh50]. **arising** [NS84]. **Arith** [CS83]. **Arithmetic** [Leh31a, WCW11, WCW12, CWQ12, Gre78, Leh73b, Rot82, Zha94a]. **Arithmetical** [Leh32a, Leh75a]. **Art** [Leh72a]. **Ary** [Leh36e]. **aspects** [Leh72c]. **Associated** [HS15, EEW00, Leh85c]. **Association** [Leh36a]. **Asymptotic** [Ren09, Aki90]. **August** [Gau94]. **Ausnahmen** [KW81]. **author** [Bri82]. **autocorrelation** [Jag63].

**Baker** [Leh61a]. **Ball** [Cox52]. **Banff** [Mac59]. **Base** [Leh26e, Leh81a]. **Based** [KM13, WTL00]. **Bernoulli** [Cal89, How89, Leh35a, Leh36b, Leh40b, Leh88b]. **Bessel** [Leh49a, Leh32a, Leh44a]. **Between** [KM13, WCW11, WCW12, GZ01b, Leh88d, Uhl55, WGH96, Zha94b]. **bilinear** [TT56a]. **binary** [Guo11b, LY08]. **Binomial** [Glo48, Leh85b]. **Birger** [Leh69a]. **bit** [DH97b]. **bonnes** [Des10]. **Book** [Leh36a, Leh41a, Leh49a, Leh61a, Leh69a, Leh72a, Leh76a, Leh79, Leh82b, S.70, Sel59, W.85]. **bound** [BŻ19, COSV93]. **Bounds** [BLL64, CWQ12]. **Brillhart** [W.85]. **British** [Gau94, Leh36a]. **BRL** [Leh54a]. **Bruijn** [COSV93, CSV94a]. **Bryant** [W.85].

**C** [Leh61a]. **Calculating** [Ano51, Leh25, Leh73a, Wil80]. **Calculation** [SW62, WB79]. **calculations** [Leh66a, Leh73c, Tur53]. **Calculus** [Leh31b]. **Cambi** [Leh49a]. **Cambridge** [Leh41a]. **Canada** [Mou01, Lev95]. **Canadian** [Mac59]. **canadien** [Mac59]. **cancellations** [Xu13]. **Candy** [Leh37d]. **Cards** [Leh57c]. **Carlitz** [SM93]. **Carlo** [Gol65, Mey56]. **Carmichael** [Leh76d, McN13, MW16]. **Carolina** [VRP92]. **case** [GM11, LL41]. **Census** [Leh37d]. **Central** [Leh85b]. **century** [Gau94, Leh88a, MHR80]. **Certain** [Leh33a, LV57, DMPP19, DH97a, GLMU56, Leh43b, Leh56b, Leh65a, Leh70b, Leh71b, Leh74a, Leh91b, Wil80]. **chains** [Leh65a]. **Challenge** [BL71]. **Changepoint** [WTL00]. **Character** [Leh66d, LLS70, Leh56b, Leh60d, Leh73f]. **Characters** [Leh76b]. **chisel** [Gol65]. **chromatic** [Leh85a]. **circulants** [Leh73e]. **Class** [Leh77b, LM78b, LM78a]. **Classification** [Leh37d]. **Classroom** [LO80, Leh57a]. **CM** [GM11]. **CM-case** [GM11]. **Coding** [PRB69, Kir79].

**Coefficient** [Leh85b]. **Coefficients** [LL83c, Bri83a, Bri83b, Leh42a]. **Collection** [MHR80]. **Coloring** [Kle90, Leh86a, Leh86b]. **Columbia** [Gau94]. **Combination** [Leh28]. **combinations** [CWQ12]. **Combinatorial** [Leh59a, Leh66a, Leh74a, Leh60e, Leh77a]. **combinatory** [Dys43]. **combining** [Leh34]. **Comment** [New57a, New57b]. **Comments** [NJ55]. **Common** [HS15, Wat77]. **Commuting** [TT56a]. **Comp** [Bri82, LM78a, Swi72]. **Company** [Leh41a]. **Complete** [Leh63a]. **composés** [Swi72]. **Composite** [SK13, EP87]. **Composition** [Leh36e]. **compounding** [Leh70b, Leh71b]. **Comptes** [Mac59]. **Computation** [Ano51, Leh44a, LV57, Leh82b, Lev95, NJ55, BD10, Gau94, Gre78, Leh56a, Leh77a, Mou01]. **Computational** [Leh83a, Gau94, Wan16]. **Computer** [Leh69b, Leh72a, BD10, Gol93, Leh60e]. **Computers** [Cor08, Leh53a, Leh59a]. **Computing** [DR96, LMO85, Leh56e, Leh13, Loo83, MHR80, Leh51a, LLV54, Leh54a, Leh74c]. **Concerning** [Sel59, Pal53, Uhl46]. **Conditions** [McN13]. **Conference** [VRP92]. **Conformal** [Mie13]. **Congrès** [Mac59]. **Congress** [Mac59]. **Congruence** [GZ01a, Leh37f, GZ02, Leh91b]. **Congruences** [Bon08, LV57, CP09, Leh34]. **Congruential** [Ful76b, Ful76a, Yam60]. **Conjecture** [Leh36c, BM10, BM13, CS83, CS83, GM11, Leh38a, Leh48a, Mie13, Mur07, MS10, Tay12, vI17, vNG53, BCO22]. **Connection** [Leh88d]. **Consecutive** [BLL64, HS15, KM13, Leh65d, LLM63]. **Constant** [Leh39c, COSV93, CSV94a, DMPP19, Leh80b]. **constants** [GSS14, Leh75a, MS10]. **constructed** [Guo11b]. **Construction** [Leh37d]. **containing** [Leh73b]. **Continued** [Leh73b, WB79, Leh38b, SS74]. **Convenient** [MB64]. **convergence** [Leh39d]. **Converse** [Leh36d, Leh27b, Leh49b, Leh71d, Leh71e]. **Correction** [CS83]. **Corrigenda** [Ano33]. **Corrigendum** [Shi19, Ste71]. **coset** [Tro64]. **cotangent** [Leh38b, SS74]. **Could** [Gra13]. **Counting** [Shi86, Shi19]. **criteria** [BLS75, Bri82]. **Cross** [Leh26c]. **Cross-Division** [Leh26c]. **Cube** [Leh25]. **cubes** [LL60]. **Cubic** [LLMS62, Leh73f, Wil80]. **cyclic** [Leh88d]. **Cyclotomic** [LO80, Leh32e, Leh33a, Leh77b, LM78b, LL87, Leh54c, Leh66c, Leh74a, LM78a, Leh83a, LL83b]. **Cyclotomy** [LL81, LL83a, LL67, LL68, Leh90b].

**D** [Bri82, Bri83a, Bri83b, Cal89, CS83, GZ02, Gao04b, Kle90, Leh72a, S.70, Sel59, SS74, W.85, YpZ03]. **D.** [Ano92, BM10, BM13, BD10, CS83, DZ01, EZ19, EZ21, GZW00, GZ01a, GZ01b, Gao03, Gao04a, Guo11a, Guo11b, HZ15, HXYZ21, Jon04, Lin61, LZ06, LZ07a, LZ07b, Liu07, LY08, LRS07, LY09, LY10a, LY10b, Mie13, Mir48, New57a, New57b, Pal53, Ram85, Ram88, Ras64, Ren09, Sai87, Sin71, Swi72, Ver17, WGH96, WHG96, Wan16, Wei06, Wei08, Wen93, Wen03, XY11, XY20, XZ06, XZ08, Xu09, Xu13, XZ14, You05, YW02, YY09, Zha93, Zha94b, Zha94a, Zha94c, Zha03, ZZY03, Zha04, ZX09, ZW10, Zha12, Zha14, ZZ15, ZG98, ZL18]. **Daniel** [Leh79]. **Decimals** [Leh43c, SW62]. **decomposition** [FM13]. **Dedicated** [LS80, LBE82, SL81]. **defined** [GLMU56]. **deren** [Leh76a].

**derivatives** [Sim18]. **Description** [Leh54a]. **designs** [Mie13]. **Detection** [Leh63c, Loe93, WTL00]. **Determinant** [Leh30c, EZ19, EZ21]. **Devices** [Leh56e, Leh13]. **Diatomic** [Leh29a]. **difference** [GZ01b, Leh53c, WGH96, Zha94b]. **Digit** [Jeb95]. **Digital** [Ano51, Leh59a]. **digits** [LMv86]. **Dimensional** [Leh30c, HXYZ21, Leh40a, Leh50, Wei08, XZ14, Zha14]. **diophantine** [New57a, Leh41b, Leh56c]. **direct** [DH97a]. **discovered** [Gra13]. **Discrete** [Leh60b]. **Discussions** [Leh25, Leh33e, Leh37c, Leh37e, Leh37f]. **displacements** [Leh70c]. **Distance** [KM13]. **distributed** [Jag63]. **Distribution** [GZ01b, Gao03, Leh70a, Sel59, GZW00, Gao04b, Gao04a, Leh55a, WGH96, WHG96, Zha94a, ZG98]. **Divisibility** [LO80, Kra48, ZG98]. **Division** [Leh26c, Leh63c]. **divisor** [Leh43b, Wat77]. **Divisors** [Leh30b, Fla09, Vou95]. **Doing** [Leh82b]. **Dose** [WTL00]. **Dose-Response** [WTL00]. **Double** [Jeb95, WCW11, WCW12, Leh31a]. **Double-Digit** [Jeb95]. **Dover** [Leh49a]. **Drinfel'd** [DP08, Dem18, Ghi07a, Ghi07b]. **Duke** [SS74]. **Dynamical** [DV04].

**E181** [GLT+35, GC36]. **E182** [LS36]. **E183** [TT36]. **E184** [RZ36]. **E185** [Ric36, RF37]. **E186** [CW36, GLT+35]. **E205** [LJT+36, LA36]. **E206** [JC36]. **E207** [TD36]. **E208** [Whi36, WB38]. **E209** [FK36]. **E210** [AV36, LJT+36]. **E2671** [CGR+77, CVP78]. **E2672** [GB79]. **E2673** [RL79]. **E2674** [TD79]. **E2675** [BS79]. **E2676** [CGR+77, GJ79]. **E299** [TFM+37, TR38]. **E300** [FL38]. **E301** [MZ38]. **E302** [AC38]. **E303** [TFM+37, Tre38a]. **E315** [ATC+38, AS38]. **E316** [Tre38b]. **E317** [CR38]. **E318** [CK38]. **E319** [Ros38]. **E320** [ATC+38, LM39]. **E406** [SCR+40, SS40]. **E407** [CG40, RTG+40]. **E408** [RP40]. **E409** [RTG+40]. **E410** [HB40, SCR+40]. **E425** [RTG+40]. **E429** [LS41, RTG+40]. **E461** [BTC+41, BB41]. **E462** [TS41]. **E463** [CE42]. **E464** [Leh42b]. **E465** [BTC+41, JF42]. **E706** [BTdR+46, BSBK46]. **E707** [TF46]. **E708** [dS46]. **E709** [Cou46]. **E710** [BTdR+46, LSSW46]. **E760** [Old47, OL47]. **early** [BD10]. **economics** [Leh73c]. **ed** [Leh79]. **Editor** [How89, Bri83a, Bri83b, Cal89]. **Effective** [Leh71a]. **Einige** [KW81]. **Electric** [Ano33, Leh33d]. **elektronnykh** [Gol65]. **Elementary** [ATC+38, AC38, AS38, AV36, BS79, BTC+41, BB41, BTdR+46, BSBK46, CGR+77, CVP78, CW36, CR38, CG40, CK38, CE42, Cou46, FK36, FL38, GB79, GJ79, GLT+35, GC36, HB40, JC36, JF42, LJT+36, LS36, LA36, Leh38f, LM39, LS41, Leh42b, LSSW46, MZ38, Old47, OL47, RZ36, Ric36, RF37, RL79, Ros38, RTG+40, RP40, SCR+40, SS40, TT36, TD36, TFM+37, TR38, TS41, Tre38a, Tre38b, TD79, Whi36, WB38]. **Eleven** [Leh49a]. **ellipsoid** [Leh50]. **Emma** [Dar91]. **Emory** [LS80, LBE82, SL81]. **Energy** [Leh57a, Leh57b]. **Engineer** [Bec56, Bec13]. **enhanced** [DH97a]. **ENIAC** [BD10]. **enumeration** [Leh71a, Tro64]. **Enzo** [Leh49a]. **Equation** [Leh41b, Leh26d, Leh29, Leh38a, Leh56c, Leh69c, New57a]. **Equations** [Leh61b, Ras64]. **Erdos** [Leh80b, MS10]. **Errata** [Kle90, Swi72, Bri82, Leh71d, Leh71e, SS74]. **Erratum** [Hir02]. **error**

[Xu13, Leh82b]. **Error-Free** [Leh82b]. **Errors** [Leh44b]. **Escott** [Leh47b, Mir48, Pal53, Sin71]. **Essays** [MHR80]. **estimation** [PGCN20]. **étude** [EZ19, EZ21]. **Euclid** [Sed01, DV04, Jeb95, Leh38c, Leh38f]. **Euclidean** [Sor95]. **Euler** [GSS14, Leh32d, Leh35a, Leh75a, MS10, Rot82]. **Eulerian** [Leh82c]. **Even** [Leh37d]. **exact** [Gre78, Leh59c, Uhl49b, Uhl55]. **expansion** [Loo83]. **experimental** [EZ19, EZ21]. **Explicit** [BB87]. **Exploitation** [Leh77a]. **Exponential** [LL79, Apo93, LL80]. **Extended** [Leh30d, Leh56a, Leh30a]. **extension** [Apo93, Jon04, Leh36b]. **Extraction** [Leh26c]. **extreme** [PGCN20].

**F** [Leh61a]. **Factor** [Leh36a, Leh39a]. **factorial** [Uhl49a]. **factorials** [Kra48, Uhl55]. **factoring** [LP31]. **factorisations** [Glo48]. **Factorization** [Leh33a, LL74, Leh90a, Kra52, Leh39b]. **Factorizations** [BLS+83a, BLS+83b, BLS+88a, BLS+88b, BLS+02, BLS75, Bri82, Leh33f, W.85]. **Factors** [HS15, Leh65d, Leh77b, LM78b, Bre82, Leh47a, LM78a]. **failures** [KW81]. **false** [EP87]. **family** [DH97a]. **Farey** [PP51]. **Fermat** [Leh71d, Leh71e, Swi72, Bre82, Cor08, Leh27b, Leh32b, Leh36d, LL41, Leh49b, LLV54, Leh81a]. **Fibonacci** [Bri83a, Bri83b, Leh64b, Leh66d, Leh75b, LL83c]. **fields** [Leh83a, Tay12, Wil80]. **fifteen** [Leh49a]. **fifteen-place** [Leh49a]. **Fifth** [Leh25]. **Finding** [GM78, Jeb95, Ste69, Ste71]. **finite** [Gre78]. **First** [Bec56, Bec13, Leh61a, LL41, Leh49a]. **Florida** [Mey56]. **following** [Spo84]. **form** [Leh73c]. **Forms** [Leh28, LL74]. **formula** [Aki90, Leh51c, Wan16, Zha03, ZZY03]. **Formulas** [Fil97, Leh35a, Leh43b]. **FORTRAN** [Kir79]. **fours** [Cox52]. **fourth** [Mac59]. **Fraction** [WB79]. **fractions** [Leh38b, Leh73b, SS74]. **free** [Ren09, Leh82b]. **French** [DP08, Des10]. **Function** [Leh37b, Leh44a, Leh65c, Leh70a, S.70, BCO22, CSV94b, Gup53, Jag63, KW81, Leh32d, Leh38e, Leh39d, Leh43a, Leh47c, Leh51b, Leh51c, Leh56a, Leh56d, LS60, Leh88c, Sim18, TCY15, Tur53, Wan16, New57b]. **Functions** [DK51, DK53, DK55, Leh30d, Leh31b, Leh33a, Leh36e, WJ76, Leh30a, Leh32a, Leh43b, Leh49a, Leh59d]. **Funktion** [Leh76a].

**G** [Leh41a, Leh76a]. **G.C.D.** [McD91]. **Gauss** [Leh56f, Leh76c]. **Gaussian** [Leh88d]. **GCD** [Jeb95, Sed01, Sor95]. **general** [Zha04]. **generalization** [DZ01, Gao04a, Gup53, LZ07a, LZ07b, LY09, LY10a, Wei06, Wen93, YpZ03, You05, YW02, YY09, Zha93, Zha94c]. **Generalizations** [SM93]. **Generalized** [DRY92, Leh82c, WJ76, XY11, GSS14, Guo11b]. **Generated** [Ful76b, LP03, Ful76a, Yam60]. **Generating** [MB64]. **Generation** [Lin61, Spo84, TT56b, Leh54a]. **generator** [PB96, PRB69]. **Generators** [DRY92, KM13, DH97a, DH97b, Kir79, Leh69a]. **Geometric** [Tri73, WCW11, WCW12, CWQ12]. **George** [CBL+87]. **German** [KW81]. **Gifford** [Leh36a]. **given** [Leh59c]. **good** [Des10]. **Grad** [Leh76a]. **Graeffe** [Leh45]. **graph** [Leh85a]. **graphs** [Ver17]. **greatest** [Wat77]. **Greeks**

[Gra13]. **Gregory** [Leh82b]. **grösser** [Leh76a]. **Group** [LP03, vI17]. **group-invariant** [vI17]. **Groups** [Leh32f, DMPP19]. **Gruenberger** [Leh61a]. **Guide** [Leh41c, Leh61c].

**H**
[Ano92, BM10, BM13, Bri82, Bri83a, Bri83b, BD10, Cal89, CS83, CS83, DZ01, EZ19, EZ21, GZW00, GZ01a, GZ01b, Gao03, Gao04a, Guo11a, Guo11b, HZ15, HXYZ21, Jon04, Kle90, Leh41a, Lin61, LZ06, LZ07a, LZ07b, Liu07, LY08, LRS07, LY09, LY10a, LY10b, Mie13, Mir48, New57a, New57b, Pal53, Ram85, Ram88, Ras64, Ren09, S.70, Sai87, Sel59, Sin71, SS74, Swi72, Ver17, W.85, WGH96, WHG96, Wan16, Wei06, Wei08, Wen93, Wen03, XY11, XY20, XZ06, XZ08, Xu09, Xu13, XZ14, You05, YW02, YY09, Zha93, Zha94b, Zha94a, Zha94c, Zha03, ZZY03, Zha04, ZX09, ZW10, Zha12, Zha14, ZZ15, ZG98, ZL18]. **H.** [GZ02, Gao04b, YpZ03]. **half** [Gau94, Leh88a, Xu09]. **half-century** [Gau94]. **Hamiltonian** [Ver17]. **Hardware** [PB96]. **Hardy** [Leh41a, Leh37b, Leh59b, Sim18]. **Harry** [Leh74b]. **Harvard** [Ano51]. **having** [Bri83a, Bri83b, LLS70, LL83c]. **heights** [vI17]. **held** [Mey56]. **Heuristics** [LL62a]. **High** [Leh56e, Leh13, W.85, XZ14, Zha14, BB87, BLS$^+$83b, BLS$^+$88b, BLS$^+$02, HXYZ21, LLV54, Leh54a, Leh63d, Uhl49b]. **High-dimensional** [XZ14, Zha14, HXYZ21]. **High-Speed** [Leh56e, Leh13, LLV54, Leh54a, Leh63d]. **Higher** [BLL64]. **highly** [Leh71a]. **History** [Leh80a, MHR80]. **Howell** [Spo84]. **Hurwitz** [TCY15]. **Hybrid** [LZ07a, LZ07b]. **hyper** [LL68, LZ07b, Liu07, Wei08, ZX09]. **hyper-dimensional** [Wei08]. **hyper-Kloosterman** [LL68, LZ07b, Liu07, ZX09]. **hyperplane** [DH97a]. **hypothesis** [CSV94a].

**identities** [Dys43]. **II** [Leh71e, BM13, DK51, GM11, Leh49b, LL80, LY10a, Ram88, Zha94c]. **III** [DK51]. **imaginary** [Tay12]. **implementation** [PB96]. **Improvements** [Loe93]. **Improving** [Wil80]. **Incomplete** [Leh76c]. **independent** [Kir79]. **indeterminate** [Leh26d]. **index** [Jar06, PGCN20]. **Indices** [SK13]. **Inequality** [WCW11, WCW12, Ghi07a, Ghi07b]. **Infinitude** [Leh64b, MW16]. **Influence** [Leh33c, Leh74c]. **initial** [Des10]. **initiales** [Des10]. **inspired** [EZ19, EZ21]. **Integer** [LLS70, WB79, Leh72c]. **Integers** [Jeb95, Leh65d, LMv86, GLMU56, Tay12]. **integral** [Loo83]. **Interchanges** [Leh65b]. **Interesting** [DFG10, DFG13, Leh85b]. **International** [Lev95, Mou01]. **intervals** [Guo11a, XY11, XZ06, Xu09, XZ14, Zha14]. **invariant** [Leh42a, vI17]. **Inverse** [Leh44b, WGH96, Zha94b]. **inverses** [GZ01b]. **Involving** [Leh85b, LS60, Leh91b, LY10b]. **ISSAC** [Lev95, Mou01]. **IV** [DK53].

**J** [Bri82, Leh36a, Leh61a, SS74, W.85]. **Jansson** [Leh69a]. **Jn** [New57a]. **John** [W.85]. **Jr.** [W.85]. **July** [Lev95, Mou01]. **jusqu'à** [Swi72].

**Khintchine** [Leh39c]. **Kind** [Leh44b, Leh49a, Leh73d]. **Klassenzahlen** [Leh76a]. **Kloosterman** [HZ15, LL60, LL67, LL68, Leh90c, LZ07b, Liu07, Wen03, XY20, Zha04, ZX09, ZW10]. **Knuth** [Leh72a]. **Kreiskörper** [Leh76a]. **Krishnaswami** [Leh48a]. **Kronecker** [Boy81]. **Kummer** [vNG53].

**L** [Bri82, Leh37d, Leh61a, W.85]. **Laboratory** [Ano51]. **Lacunary** [Leh35a]. **Lagarias** [DR96]. **Large** [Ano51, Leh38c, Leh38f, LP31, Leh51a]. **Large-Scale** [Ano51, Leh51a]. **Last** [Leh32b, LL41, LLV54]. **lattice** [Leh40a]. **Law** [Leh57a, Leh57b]. **Laws** [Leh78]. **lectures** [Leh41a]. **Lehmer** [Bri82, Bri83a, Bri83b, CS83, Hir02, New57a, New57b, Shi19, Ste71, W.85, Aki90, Ano92, BCO22, BM10, BM13, Bon08, Boy81, Bri83a, Bri83b, Bru93, BD10, BŻ19, Cal89, CS83, CP09, CJS98, CWQ12, CT19, COSV93, CSV94b, CSV94a, DV04, Dar91, DP08, DMPP19, DR96, Dem18, DRY92, DZ01, Des10, DH97a, DH97b, DFG10, DFG13, EEW00, EZ19, EZ21, FM13, Fil97, Fla09, Ful76a, Ful76b, GZW00, GZ01a, GZ01b, GZ02, Gao03, Gao04b, Gao04a, Ghi07a, Ghi07b, Gra13, GM11, GSS14, Guo11a, Guo11b, HS15, HZ15, HXYZ21, Hir01, Jar06, Jeb95, Jon04, KM13, Kir79, Kle90, Kra70, LMO85, LL93, Lin61, LZ06, LZ07a, LZ07b, Liu07, LY08, Liu09, Loe93, LRS07, LY09, LY10a, LY10b, LP03, McD91, McN13, MW16, Mie13, Mir48, Mur07, MS10, Pal53, PB96, PRB69]. **Lehmer** [PGCN20, Ram85, Ram88, Ras64, Ray94, Ren09, Rob58, Ros88, Rot82, S.70, Sai87, Sch13, Sed01, Sel59, SM93, Shi86, Sim18, Sin71, SK13, SK15, Sor95, SS74, Spo84, Ste69, Sto17, Swi72, Tay12, TCY15, Tri73, Ver17, Vou95, WGH96, WHG96, WCW11, WCW12, Wan16, Wat77, Wei06, Wei08, Wen93, Wen03, WJ76, XY11, XY20, XZ06, XZ08, Xu09, Xu13, XZ14, Yam60, YpZ03, You05, You22, YW02, YY09, Zha93, Zha94b, Zha94a, Zha94c, Zha03, ZZY03, Zha04, ZX09, ZW10, Zha12, Zha14, ZZ15, ZG98, ZL18, vI17]. **Lehmers** [Apo93, Cor08]. **Leibniz** [You22]. **Lenstra** [Paj80]. **less** [Leh59c]. **Letter** [Bri83a, Bri83b, Cal89, How89]. **life** [Leh41a]. **like** [Leh88c, Leh91b]. **Limit** [You22, Leh59c]. **Lind** [DMPP19]. **Linear** [GM78, Leh28, Leh41b, Leh34, Leh76b]. **Links** [Hir01, Hir02]. **Littlewood** [Leh59b]. **local** [Ghi07b]. **locally** [Ray94]. **Location** [Leh56f]. **Lodge** [Leh36a]. **logic** [Leh63d]. **London** [Leh36a, Mou01, New57a]. **Long** [Jeb95]. **Low** [Leh57a, Leh57b]. **lower** [COSV93]. **Lucas** [Bru93, Des10, Gra13, HS15, Kra70, Leh30a, Leh30d, Leh35b, McD91, Ros88, SM93, SK13, Vou95].

**Machine** [Kir79, Leh25, Leh61b, LLMS62, Leh34, Tro64]. **Machine-independent** [Kir79]. **Machinery** [Ano51]. **Machines** [Leh68, Leh54a]. **Macmillan** [Leh41a]. **Madhava** [You22]. **Magic** [Leh37d]. **Mahler** [Leh60a, Leh60c]. **Manhattan** [KM13]. **Many** [Leh43c]. **March** [Mey56]. **mashinakh** [Gol65]. **Math** [Bri82, Cal89, Kle90, Leh71d, Leh71e, LM78a, New57a, SS74, Swi72]. **Mathematica** [New57b]. **Mathematical** [Leh36a, Leh51a, Mac59, Leh93]. **Mathematics**

[Bec56, Bec13, Leh33c, EZ19, EZ21, Gau94, Leh66b, Leh68, Gau94]. **mathématiques** [Mac59]. **MATLAB** [WTL00]. **MATLAB-Based** [WTL00]. **Matrices** [Leh60c, Leh75b, Leh56b, Leh60a, Leh60d, Leh74a, Leh81b, TT56a, Tay12]. **Matrix** [Leh91a, GL76, Leh90b, Leh90c]. **Maxima** [Leh40b]. **Mean** [Guo11a, CWQ12, HZ15, LZ07a, LZ07b, PGCN20, Uhl49a, Wan16, Wei06, Wei08, XZ08, Zha03, ZZY03, ZW10, Zha12]. **mean-of-order-** [PGCN20]. **Means** [WCW11, WCW12, CWQ12, Leh70b, Leh71b]. **Mechanical** [Leh28]. **Mechanized** [Leh66b]. **Meets** [Cor08]. **Meissel** [Shi19, DR96, LMO85, Shi86]. **Mersenne** [CW91, Kra70, Leh32c, Leh35b, Leh53b, Uhl46]. **Method** [Ful76b, LMO85, Leh61b, Leh63a, Lin61, Loe93, MB64, Ste69, Ste71, DR96, Ful76a, Gol65, Ras64, Shi86, Shi19, Yam60]. **Methods** [Leh82b, Mey56, Leh51a, Leh60b, Leh71a]. **Miller** [DR96, Len79]. **Million** [Leh61a]. **Millions** [Sel59]. **Minima** [Leh40b]. **Möbius** [Gup53, LS60]. **Modelirovanie** [Gol65]. **models** [BM10, BM13]. **Modern** [Bec56, Bec13]. **modul** [LL81]. **modular** [Leh38a, Leh42a]. **module** [DP08, Swi72]. **modules** [Dem18, Ghi07a, Ghi07b]. **modulo** [CT19, GZ01a, Gao03, Jag63, WGH96, WHG96, Zha94b, ZG98]. **Modulus** [Leh57c, Leh51b]. **moments** [Leh73a, Leh73d]. **Monte** [Gol65, Mey56]. **Monthly** [Cal89, Kle90, Leh71d, Leh71e]. **Montréal** [Lev95]. **Mordell** [Ghi07a]. **Morgan** [Leh93]. **MR** [Bri82, Bri83a, Bri83b, CS83]. **MR0679001** [CS83]. **MR0835299** [Kle90]. **MR0979133** [Cal89]. **Multidimensional** [Wat77]. **Multiperfect** [Bro54]. **Multiple** [LL83b, Leh29]. **Multiplicative** [LP03]. **multipliers** [DH97b]. **Multisectioned** [Leh73d].

**Napierian** [Leh26e]. **Nearest** [WB79]. **Needed** [Leh82b]. **neighbor** [Ver17]. **neighbor-swap** [Ver17]. **Neumann** [Gol93]. **Newman** [COSV93, CSV94a]. **nicht** [Leh76a]. **Nights** [Uhl49a]. **Nine** [Uhl55]. **no** [Bri83a, Bri83b, Cal89, CS83, Kle90, LM78a, Swi72]. **nombres** [Swi72]. **non** [LL81]. **non-squarefree** [LL81]. **nonexistence** [Leh46]. **Nonlinear** [WTL00]. **NORC** [NJ55]. **Normal** [MB64]. **North** [VRP92]. **Notations** [Leh33c]. **Note** [CP09, Dar91, Leh32c, Leh33b, Leh33e, Leh37a, Leh37c, Leh37e, Leh39c, Leh41b, Leh44a, Leh70a, HXYZ21, Leh32b, Leh63b, Liu09, Sin71]. **Notes** [LO80, Leh33e, Leh37c, Leh37e, Leh37f, Leh57a, Leh86b, Ros88, Cox52]. **Number** [Ano33, Cor08, DRY92, Leh30b, Leh33d, LV57, Leh63c, Leh79, McD91, DH97a, DH97b, EP87, Gao03, Gao04b, Kir79, Leh51c, Leh54a, Leh59c, Leh66a, Leh69a, Leh74c, Leh77a, Leh91b, PB96, PRB69, Ren09, Sai87, Uhl46, WGH96, Zha94b, ZL18]. **number-theory** [Leh66a]. **Numbers** [CJS98, Fil97, Ful76b, GM78, KM13, Kra70, Leh33b, Leh33e, Leh35b, Leh38c, Leh38f, Leh41c, Leh48b, Leh77b, LM78b, LL83c, Leh85c, Lin61, LP03, Sch13, SK13, Aki90, Bre82, Bri83a, Bri83b, Bro54, BŻ19, CT19, Esc46, FM13, Ful76a, GZW00, GZ01a, GZ01b, GZ02, Gao04a, LP31, Leh32c, Leh35a,

Leh36b, Leh54c, Leh61c, Leh69b, Leh73d, Leh76d, LM78a, Leh82c, LL83b, LY10b, MW16, TT56b, Tou53, WHG96, Yam60, Zha94a, ZG98, Leh61a]. **Numerical** [Leh31b, Leh33c, Leh36e, Leh60b, vNG53].

**Obituary** [CBL+87]. **Odlyzko** [DR96]. **Ontario** [Mou01]. **Optimal** [CWQ12]. **order** [BB87, Leh54c, PGCN20, Leh37d]. **orders** [Leh49a]. **Orthogonal** [FM13]. **Overflow** [Leh63c].

**P** [LS80, LBE82, SL81, Swi72, Leh49a, New57a, New57b]. **pair** [COSV93]. **Pairs** [BLL64, KM13, LLM63, Sto17, CSV94b, CSV94a, Sim18]. **paper** [CS83]. **parallel** [Sed01]. **parallelism** [Leh77a]. **parameterized** [Ray94]. **parameters** [Rot82]. **Parametrized** [DV04]. **paraphrase** [Leh90b, Leh90c]. **paraphrases** [Leh91a]. **Part** [DK53, DK55]. **Partition** [Leh37b, Leh48b, Leh38e, Leh39d, Leh51c]. **Partitions** [LY10b, Leh46, Leh72b, Leh72c, Leh73a]. **Parts** [DK51]. **Pascal** [Gol93]. **paths** [Ver17]. **Patterns** [Leh83b]. **Pell** [Leh29]. **Perfect** [CJS98, Tou53]. **Period** [Ful76b, Ful76a, LL84, Yam60]. **Periodic** [Leh75b]. **periodicities** [Leh32a]. **Periods** [LL83a, Leh88d]. **permanent** [GL76]. **Permutation** [Leh65b]. **Permutations** [Leh70c, Leh71a, Leh76b, Spo84, Ver17]. **Peters** [Leh36a]. **Photo** [Ano33, Leh33d]. **Photo-Electric** [Ano33, Leh33d]. **physical** [DH97a]. **pi** [BB87]. **Picturesque** [LL79, LL80, Apo93]. **Pierce** [Fla09]. **place** [Leh49a]. **Places** [Leh43c]. **Platonic** [Kle90, Leh86a, Leh86b]. **points** [Leh40a]. **Pólya** [CBL+87]. **Polynomial** [Dar91, Hir01, Hir02, Leh61b, Ste69, Ste71, Leh66c, Leh69c, LL84, Leh85a, Ras64]. **Polynomials** [How89, Leh32e, Leh36e, Leh40b, LL83c, Leh88b, Boy81, Bri83a, Bri83b, Cal89, EEW00, Loo83]. **Poulet** [Swi72]. **pour** [DP08, Swi72]. **Power** [BLL64, Leh60d, Leh45, LLM63, Leh83b, PP51]. **powers** [BLS+83b, BLS+88b, BLS+02, Leh88c, Leh91b, Uhl49b, W.85]. **pp** [Leh36a, Leh41a]. **Prescribed** [LLS70]. **Press** [Leh41a]. **Pretzel** [Hir01, Hir02]. **Primality** [AL81, Leh82a, Leh35b, Leh65c, Bre82, BLS75, Bri82, Leh27b, Leh39b, Len79]. **Prime** [CW91, GM78, Leh61a, Leh65d, Leh77b, SK13, WJ76, CT19, Jar06, Tou53]. **Primes** [EEW00, Leh53b, Leh64b, Leh85d, Sel59, Jar06, Leh59c, Leh65a]. **Primitive** [Fla09, Vou95, CT19, Gao03, Leh63b, WGH96, WHG96, ZG98]. **Probabilities** [Leh44b]. **Problem** [Bon08, CJS98, Boy81, DP08, Dem18, DZ01, FM13, Guo11a, Guo11b, HZ15, HXYZ21, Leh47b, Leh53a, Leh54b, Leh59b, Leh64a, LZ06, LZ07a, LZ07b, Liu07, LY08, LRS07, LY09, LY10a, Mir48, Pal53, Ray94, Sai87, Sin71, TCY15, Tod49, Wan16, Wei06, Wei08, Wen93, Wen03, XY11, XY20, XZ06, XZ08, Xu09, Xu13, XZ14, YpZ03, You05, YW02, YY09, Zha93, Zha94c, Zha03, ZZY03, Zha04, ZX09, ZW10, Zha12, Zha14, ZZ15]. **problème** [DP08]. **Problems** [AJD55, AJL57, ATC+38, AC38, AS38, ACP32, AV36, AG27, Ano30, AL38, BS56, BB55, BL63, Bel44, BS79, BG56, BTC+41, BB41,

BTdR+46, BSBK46, BS27, CGR+77, CVP78, CL55, CW36, CR38, CG40, Cor28, Cor30, Cou38, CK38, CE42, Cou46, CTK+49, DA31, ES79, Erd37, EL39, Erd43, ES44, ER55, EVWK56, EP58, Erd59, Erd62, FK36, FL38, FP61, Fun63, GJ38, GB79, GJ79, GLT+35, GC36, Goh55, Gol54, GHL55, GR39, Goo50, HB40, IP27, IL30, IH32, IA32, IM57, JPD30, JC36, JF42, KW79, KH55, KC57, KCD+77, KL79, Leh26b, Leh26a, Leh27a, Leh29b, LIAC31, LAC+36, LJT+36, LS36, LA36, LB38, Leh38f, LH38, Leh39e, LM39, LS41, Leh42b, LSSW46, Leh48c, LK50, Leh55b, LC56, LR57, Leh79, LS80]. **Problems** [LBE82, Leh85d, Lor55, MZ38, Mak62, MC63, MS63, MD27, MS39, MG39, NB63, Old47, OL47, RZ36, RHSW55, RG56, Ric36, RF37, RWJ+30, RI30a, RI30b, RR31, RU27, Rob26, RL79, Ros38, RTG+40, RP40, SL81, San48, SK50, SCB+54, SK55, SCR+40, SS40, SM79, SG44, SN29, SL27, TT36, TD36, TFM+37, TR38, Thé39, TG39, TG40, TS41, Thé44, TF46, TyH39, TP40, Tre38a, Tre38b, TD79, UC63, WBL44, WR50, WLE+37, WB39, yWM56, WT63, Wei55, WI56, Whi36, WB38, WH57, WBG31, WL30, dS46, Leh59a, ZL18]. **procedures** [Leh69c]. **Proceedings** [Lev95, Mou01, Ano51, Mac59, VRP92]. **Process** [Leh26c, Leh80a, Leh45]. **product** [Ram85, Ram88]. **program** [Tro64]. **Programming** [Leh72a]. **programs** [BD10]. **progression** [Zha94a]. **progressions** [Leh73b, Leh75a, Rot82]. **Project** [LL93]. **Proof** [Bru93, Leh57a, LLMS62, Ros88, Tri73, Leh57b, Rob58]. **proofs** [Bre82]. **Properties** [Bri83a, Bri83b, LO80, Leh42a, LL83c, Leh66c, Leh73e, Leh74a]. **Property** [Sch13, BŻ19, GZW00, GZ02, Gao04b, PP51, Ren09]. **Pseudo** [Ful76b, Leh64b, Lin61, Ful76a, Leh54b, PRB69, TT56b]. **Pseudo-Primes** [Leh64b]. **Pseudo-Random** [Ful76b, Ful76a, PRB69, TT56b]. **pseudo-squares** [Leh54b]. **Pseudoprimes** [CJS98, Rot82]. **Pseudorandom** [Guo11b, DH97b, LY08, Yam60]. **psevdosluchainykh** [Gol65]. **Publications** [Ano92, Leh37d, Leh49a]. **pure** [Leh68, Wil80]. **purpose** [Leh53a].

**Quadratic** [Leh66d, LLS70, LL74, Leh73f, Leh73c, Tay12]. **Quart** [Bri83a, Bri83b]. **quarter** [Zha14]. **Quasi** [Leh32e]. **Quasi-Cyclotomic** [Leh32e]. **quatrième** [Mac59]. **Questions** [CTK+49, Leh25, Leh33e, Leh37c, Leh37e, Leh37f]. **Quotient** [Leh37e, Leh81a].

**R63** [Leh63c]. **Radically** [McN13]. **Raleigh** [VRP92]. **Ramanujan** [S.70, BCO22, BB87, Leh36c, Leh37b, Leh38a, Leh43a, Leh47c, Leh51b, Leh59d, Leh65c, Leh70a, Zha12]. **Ramanujan-type** [BB87]. **Ramanujan.** [Leh41a]. **Random** [DRY92, Ful76b, KM13, Lin61, DH97a, Ful76a, Kir79, PB96, PRB69, TT56b, Leh54a, Leh69a]. **Randomness** [KM13]. **Rational** [Leh78, Loo83]. **Really** [Bru93]. **Rechtenstamm** [Leh76a]. **reciprocally** [Leh72b]. **Reciprocity** [Leh57a, Leh78, Leh57b]. **Recurrence** [Leh43b, Leh35a]. **recursive** [Leh71c]. **Regel** [KW81]. **Regional** [VRP92]. **Regression** [WTL00]. **Regulator** [WB79, Wil80]. **Related**

[Leh75b, HZ15, Wan16, ZW10, Zha12, ZZ15, ZL18]. **Relations** [Leh38d, GZ01a, Tod49]. **Relationships** [WTL00]. **Relativ** [Leh76a]. **remainders** [Leh39d]. **remark** [Mir48]. **Remarks** [Leh81b]. **rendus** [Mac59]. **report** [GLSW74]. **repunit** [BŻ19]. **research** [Leh74c]. **Residue** [Leh63c, Leh53c]. **Residues** [BLL64, LLMS62, GZ01a, LL62b, LLM63, Leh83b, PP51]. **Respect** [Leh57c, Leh51b]. **Response** [WTL00]. **restricted** [Leh70c, Leh71a]. **Result** [Tri73, Uhl46]. **Resultants** [LL87]. **results** [LZ07b]. **Review** [Leh36a, Leh41a, Leh49a, Leh61a, Leh69a, Leh72a, Leh76a, Leh79, Leh82b, S.70, Sel59, W.85]. **reviewing** [Leh88a]. **Reviews** [Leh37d]. **Revisited** [Sto17]. **Riemann** [New57b, CSV94b, CSV94a, KW81, Leh56a, Leh56d, Leh88c, Tur53]. **Riemannschen** [KW81]. **ring** [Tay12]. **Robert** [Leh82b]. **Root** [Leh63a, Leh66d, Loe93]. **Root-Squaring** [Leh63a]. **Roots** [Leh25, Leh26c, CT19, Gao03, Leh56d, Leh63b, New57b, WGH96, WHG96, ZG98]. **Rosser** [KW81]. **Rosserschen** [KW81]. **Rouse** [Cox52]. **rule** [KW81]. **runs** [LL62b]. **Russian** [Gol65].

**S** [W.85]. **S27** [LS80, LBE82]. **S28** [LS80, SL81]. **Scale** [Ano51, Leh51a]. **Schläfli** [Leh38a]. **Schrutka** [Leh76a]. **Schultz** [Leh74b]. **Schur** [GL76, Loe93]. **Search** [Leh69c]. **Second** [Ano51, GLSW74, Leh44b, Leh73d]. **segment** [Gre78]. **Seiffert** [CWQ12]. **Selfridge** [W.85, Bri82]. **Seminumerical** [Leh72a]. **Separable** [Leh85d]. **September** [Ano51]. **Sequence** [LLS70, Des10, Jag63, NS84]. **Sequences** [HS15, LO80, Leh75b, McD91, SM93, EEW00, Fla09, GLMU56, Guo11b, GLSW74, Jar06, Leh71c, LY08, PP51, Vou95]. **Series** [Bec56, Bec13, DFG10, DFG13, HS15, Leh29a, Leh37b, Leh85b, Leh31a, Leh38e, Leh39d, Leh45, NS84]. **sets** [Leh34, Leh53c]. **Setting** [BD10]. **Setting-up** [BD10]. **Seventh** [BLL64]. **several** [Boy81]. **sextic** [LL84]. **Shanks** [Leh79]. **Sharp** [WCW11, WCW12]. **Short** [LL83a, Guo11a, XY11, XZ06, XZ14]. **should** [Gra13]. **Sieve** [GM78, Leh33d, Leh80a, Leh53a, Leh54b]. **Siever** [Ano33]. **sieves** [GLMU56]. **significant** [Leh49a]. **simulation** [PGCN20]. **Six** [Leh61a]. **sixteen** [Leh54c]. **Smith** [Leh30c]. **Soc** [New57a]. **Software** [WTL00]. **Solids** [Leh86b, Kle90, Leh86a]. **Solution** [ATC$^+$38, BTC$^+$41, BTdR$^+$46, Cor28, Erd37, Erd43, EVWK56, GLT$^+$35, Gol54, Leh26b, Leh26a, LIAC31, LAC$^+$36, LJT$^+$36, Leh48c, Leh55b, Mak62, Ras64, RWJ$^+$30, Rob26, RTG$^+$40, San48, SCB$^+$54, SCR$^+$40, TFM$^+$37, WLE$^+$37, Wei55, Mir48, Sin71]. **Solutions** [AJD55, AJL57, ATC$^+$38, AC38, AS38, ACP32, AV36, AG27, Ano30, AL38, BS56, BB55, BL63, Bel44, BS79, BG56, BTC$^+$41, BB41, BTdR$^+$46, BSBK46, BS27, CGR$^+$77, CVP78, CL55, CW36, CR38, CG40, Cor28, Cor30, Cou38, CK38, CE42, Cou46, DA31, ES79, Erd37, EL39, Erd43, ES44, ER55, EVWK56, EP58, Erd59, Erd62, FK36, FL38, FP61, Fun63, GJ38, GB79, GJ79, GLT$^+$35, GC36, Goh55, Gol54, GHL55, GR39, Goo50, HB40, IP27,

IL30, IH32, IA32, IM57, JPD30, JC36, JF42, KW79, KH55, KC57, KCD+77, KL79, Leh26b, Leh26a, Leh27a, Leh29b, LIAC31, LAC+36, LJT+36, LS36, LA36, LB38, Leh38f, LH38, Leh39e, LM39, LS41, Leh42b, LSSW46, Leh48c, LK50, Leh55b, LC56, LR57, LV57, LS80, LBE82]. **Solutions** [Lor55, MZ38, Mak62, MC63, MS63, MD27, MS39, MG39, NB63, Old47, OL47, RZ36, RHSW55, RG56, Ric36, RF37, RWJ+30, RI30a, RI30b, RR31, RU27, Rob26, RL79, Ros38, RTG+40, RP40, SL81, San48, SK50, SCB+54, SK55, SCR+40, SS40, SM79, SG44, SN29, SL27, TT36, TD36, TFM+37, TR38, Thé39, TG39, TG40, TS41, Thé44, TF46, TyH39, TP40, Tre38a, Tre38b, TD79, UC63, WBL44, WR50, WLE+37, WB39, yWM56, WT63, Wei55, WI56, Whi36, WB38, WH57, WBG31, WL30, dS46, Leh29, Leh91b]. **Solved** [Leh79]. **Solving** [Leh61b, Leh69c]. **Some** [LO80, Leh33f, Leh59d, Leh63d, Leh66c, Leh71c, Leh72c, Leh73e, NJ55, Tur53, WJ76, Xu13, ZZ15, Bre82, CP09, Fla09, Tay12, KW81]. **Sorting** [Leh57c]. **Southeast** [VRP92]. **space** [FM13]. **Special** [Fil97]. **Speed** [Leh56e, Leh13, LLV54, Leh54a, Leh63d, Wil80]. **spurs** [Ver17]. **Square** [Leh85d, Zha03, ZZY03]. **Square-Separable** [Leh85d]. **squarefree** [LL81]. **Squares** [Leh37d, Leh48b, Leh54b, Shi86, Shi19]. **Squaring** [Leh63a]. **Starke** [LS80, LBE82, SL81]. **statistical** [Gol65]. **statisticheskii** [Gol65]. **Stencils** [Leh39a]. **Stern** [Leh29a]. **Stirling** [Leh73d, Leh85c]. **Störmer** [Leh64a]. **Strong** [Leh76d, Rot82]. **strongly** [Leh70c]. **structural** [Leh72c]. **study** [DH97b, PGCN20, vNG53]. **subjects** [Leh41a]. **Succinct** [Bre82]. **suggested** [Leh41a]. **suite** [Des10]. **sum** [LS60, Leh88c, Leh91b, Zha12]. **Summation** [Fil97]. **Sums** [Leh56f, LL79, Apo93, HZ15, LL60, LL67, LL68, Leh76c, LL80, LL83b, Leh90c, LZ07b, Liu07, Shi86, Shi19, Wen03, XY20, Zha04, ZX09, ZW10, ZZ15]. **Superpseudoprimes** [SK15]. **support** [DH97a]. **suppression** [DH97a]. **SWAC** [Cor08]. **swap** [Ver17]. **Symbolic** [Lev95, Mou01]. **Symmetric** [DK51, DK53, DK55]. **Symposium** [Ano51, Gau94, Lev95, Mey56, Mou01]. **system** [GZ01a]. **Systems** [Leh63c].

**Tabelle** [Leh76a]. **Table** [Bri82, Leh71d, Leh71e, LM78a, LM78b, SS74, Swi72, Uhl49b, Leh36b, Leh36a]. **Tables** [DK51, DK53, DK55, Leh36a, Leh41c, Leh43c, Leh44b, Leh49a, Leh61c, S.70, Sel59]. **tangent** [Tod49]. **Tarry** [Leh47b, Mir48, Pal53, Sin71]. **Tau** [Leh65c, Leh70a, BCO22]. **Tau-Function** [Leh65c, BCO22]. **Tausworthe** [DRY92]. **Teaching** [Leh60e]. **Technique** [LL74]. **technology** [Leh69b]. **term** [Xu13]. **Terms** [HS15, Jar06]. **Ternary** [Leh32f]. **Ternouth** [Leh36a]. **Test** [Bru93, KM13, Kra70, Leh35b, Ros88, Gra13, Leh39b, Len79]. **Testing** [AL81, WJ76, Gol65, TT56b]. **Tests** [Leh82a, Leh27b]. **tetrahedron** [Leh40a]. **th** [Leh30b, ZX09, PP51]. **Their** [Leh33c, Leh56e, LM78b, Leh13, GZ01b, LM78a, ZG98]. **Theorem** [LLMS62, Boy81, Ghi07a, Jon04, Leh27b, Leh39b, Leh71d, Leh71e, Pal53, Rob58, Leh32b, Leh36d, LL41, Leh49b, LLV54]. **théorème** [Swi72].

**theorems** [Leh46, Paj80]. **theoretic** [Leh77a]. **Theorie** [KW81]. **Theory** [Cor08, Leh30d, Leh41c, KW81, Leh30a, Leh61c, Leh66a, Leh69b, Leh74c, Sai87, Leh79]. **Three** [Dys43, Cox52]. **Todd** [Leh82b]. **Tool** [WTL00]. **totatives** [Leh55a]. **totient** [Leh32d]. **Toy** [BM10, BM13]. **Transcendence** [GSS14]. **transformations** [TT56a]. **triangular** [Leh51c]. **tricks** [Leh60e]. **Tridiagonal** [Leh75b, EZ19, EZ21, Leh74a]. **Trigonometric** [Leh33b, Leh33e]. **Trinomial** [LV57]. **Trivial** [Bru93]. **Tuckerman** [W.85]. **tuples** [Liu09]. **Turán** [Leh80b]. **Twelve** [Leh41a]. **Twentieth** [MHR80]. **Two** [Leh46, Leh53b, Leh81a, Paj80, Shi86, Shi19]. **type** [BB87]. **types** [Leh66a].

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**V** [Leh36a, Leh76a, New57a, New57b, DK55]. **valeurs** [Des10]. **Value** [Leh26e, Guo11a, HZ15, LZ07a, LZ07b, PGCN20, Wan16, Wei06, Wei08, XZ08, Zha03, ZZY03, ZW10, Zha12]. **values** [Des10, Uhl49b]. **Vancouver** [Gau94]. **Vandiver** [Cor08, Leh74b]. **vanishing** [Leh47c]. **variable** [Leh60b]. **Variables** [MB64, Boy81]. **variant** [GM11, Mur07]. **Variations** [BCO22]. **vérifiant** [Swi72]. **version** [Ray94, vI17]. **vi** [Leh49a]. **Vol** [Leh36a, Leh72a]. **vychislitelnykh** [Gol65].

**Wagstaff** [W.85]. **Ward** [Leh93]. **Weakening** [McN13]. **weighted** [Leh72b, Uhl49a]. **weighted-mean** [Uhl49a]. **Weil** [Ghi07a]. **Western** [Mou01]. **which** [MW16]. **Wilson** [Leh37e]. **witnesses** [EP87]. **work** [Leh93, Leh41a]. **Wurtzelexponenten** [Leh76a].

**xv** [Leh36a].

**York** [Leh41a, Leh49a].

**Zeros** [Ste69, Ste71, COSV93, CSV94b, CSV94a, Leh88c, Loo83]. **zeta** [KW81, Leh56a, Leh56d, Leh88c, TCY15, Tur53, New57b]. **zeta-function** [Leh56a, Leh56d, TCY15, Tur53, New57b]. **Zetafunktion** [KW81]. **zur** [KW81].

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[SCB+54] I. J. Schoenberg, Leonard Carlitz, Leon Bankoff, Harry Goheen, C. M. Ablow, and D. L. Johnson. Advanced problems and solutions: Problems for solution: 4598–4602. *American Mathematical Monthly*, 61(7):476–477, August/September 1954. CODEN AMMYAE. ISSN 0002-9890 (print), 1930-0972 (electronic). See also [AJD55, AJL57, BB55, CL55, Goh55, SK55].

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[SCR+40] David Segal, Virgil Claudian, W. C. Rufus, V. Thébault, and C. H. Hardingham. Problems and solutions: Elementary problems: Problems for solution: E406–E410. *American Mathematical Monthly*, 47(2):110, February 1940. CODEN AMMYAE. ISSN 0002-9890 (print), 1930-0972 (electronic). See also [CG40, HB40, RTG+40, RP40, SS40].

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[SK15] Lawrence Somer and Michal Krízek. On Lehmer superpseudoprimes. *Fibonacci Quarterly*, 53(3):206–??, August 2015. CODEN FIBQAU. ISSN 0015-0517. URL `http://www.fq.math.ca/Abstracts/53-3/somer.pdf`.

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[SL81] David A. Sanchez and Deborah Frank Lockhart. Problems and solutions: Solutions of problems dedicated to Emory P. Starke: S28. *American Mathematical Monthly*, 88(9):704–705, November 1981. CODEN AMMYAE. ISSN 0002-9890 (print), 1930-0972 (electronic). See also [LS80].

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[Ste69] G. W. Stewart, III. On Lehmer's method for finding the zeros of a polynomial. *Mathematics of Computation*, 23(108):829–835, s24–s30, October 1969. CODEN MCMPAF. ISSN 0025-5718 (print), 1088-6842 (electronic). See corrigendum [Ste71].

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[Ste71] G. W. Stewart, III. Corrigendum: "On Lehmer's Method for Finding the Zeros of a Polynomial". *Mathematics of Computation*, 25 (113):203, January 1971. CODEN MCMPAF. ISSN 0025-5718 (print), 1088-6842 (electronic). See [Ste69].

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[SW62] Daniel Shanks and John W. Wrench, Jr. Calculation of $\pi$ to 100,000 decimals. *Mathematics of Computation*, 16(77):76–99, January 1962. CODEN MCMPAF. ISSN 0025-5718 (print), 1088-6842 (electronic). URL `http://www.jstor.org/stable/2003813`. A note added in proof says: "J. M. Gerard of IBM United Kingdom Limited, who was then unaware of the computation described above, computed $\pi$ to 20,000 D on the 7090 in the London Data Centre on July 31, 1961. His program used Machin's formula, (1) $[\pi = 16\arctan(1/5) - 4\arctan(1/239)]$, and required 39 minutes running time. His result agrees with ours to that number of decimals.".

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[Swi72] J. D. Swift. Errata to D. H. Lehmer's "Table errata: 'Table des nombres composés vérifiant le théorème de Fermat pour le module 2 jusqu'à 100.000.000' by P. Poulet" (Math. Comp. **25** (1971), no. 116, 944–945). *Mathematics of Computation*, 26:814, 1972. CODEN MCMPAF. ISSN 0025-5718 (print), 1088-6842 (electronic). URL `http://links.jstor.org/sici?sici=0025-5718(197207)26:119<813:TE>2.0.CO;2-T&origin=MSN`.

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[TF46] Victor Thébault and H. E. Fettis. Problems and solutions: Solutions: E707. *American Mathematical Monthly*, 53(8):468–469, October 1946. CODEN AMMYAE. ISSN 0002-9890 (print), 1930-0972 (electronic). See also [BTdR+46].

**Thebault:1937:PSEl**

[TFM+37] V. Thébault, Daniel Finkel, D. L. MacKay, F. A. Alfieri, and J. E. Trevor. Problems and solutions: Elementary problems: Problems for solution: E299–E303. *American Mathematical Monthly*, 44(9):598–599, November 1937. CODEN AMMYAE. ISSN 0002-9890 (print), 1930-0972 (electronic). See also [AC38, FL38, MZ38, TR38, Tre38a].

**Thebault:1939:PSSb**

[TG39] V. Thébault and R. Goormaghtigh. Problems and solutions: Solutions: 3821. *American Mathematical Monthly*, 46(4):241–244, April 1939. CODEN AMMYAE. ISSN 0002-9890 (print), 1930-0972 (electronic). See also [Erd37].

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[TG40] V. Thébault and R. Goormaghtigh. Problems and solutions: Advanced problems: 3840. *American Mathematical Monthly*, 47(7): 491–494, August/September 1940. CODEN AMMYAE. ISSN 0002-9890 (print), 1930-0972 (electronic). See also [WLE+37].

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[Thé39] V. Thébault. Problems and solutions: Advanced problems: Solutions: 3839. *American Mathematical Monthly*, 46(9):604–606, November 1939. CODEN AMMYAE. ISSN 0002-9890 (print), 1930-0972 (electronic). See also [WLE+37].

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[Thé44] V. Thébault. Problems and solutions: Advanced problems: 4069. *American Mathematical Monthly*, 51(8):477–478, October 1944. CODEN AMMYAE. ISSN 0002-9890 (print), 1930-0972 (electronic). See also [Erd43].

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[Tod49] John Todd. A problem on arc tangent relations. *American Mathematical Monthly*, 56:517–528, 1949. CODEN AMMYAE. ISSN 0002-9890,1930-0972. URL `https://www.jstor.org/stable/2305526`.

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[TP40] H. P. Thielman and E. S. Pondiczery. Problems and solutions: Advanced problems: 3836. *American Mathematical Monthly*, 47 (2):115–117, February 1940. CODEN AMMYAE. ISSN 0002-9890 (print), 1930-0972 (electronic). See also [TyH39, WLE+37].

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[TR38] V. Thébault and W. C. Rufus. Problems and solutions: Elementary problems: Solutions: E299. *American Mathematical Monthly*, 45 (5):320, May 1938. CODEN AMMYAE. ISSN 0002-9890 (print), 1930-0972 (electronic). See also [TFM+37].

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[Tre38a] J. E. Trevor. Problems and solutions: Elementary problems: Solutions: E303. *American Mathematical Monthly*, 45(6):387–389, June/July 1938. CODEN AMMYAE. ISSN 0002-9890 (print), 1930-0972 (electronic). See also [TFM+37].

**Trevor:1938:PSEb**

[Tre38b] J. E. Trevor. Problems and solutions: Elementary problems: Solutions: E316. *American Mathematical Monthly*, 45(10):693, December 1938. CODEN AMMYAE. ISSN 0002-9890 (print), 1930-0972 (electronic). See also [ATC+38].

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[TS41] V. Thébault and E. P. Starke. Problems and solutions: Elementary problems: Solutions: E462. *American Mathematical Monthly*, 48 (10):703–704, December 1941. CODEN AMMYAE. ISSN 0002-9890 (print), 1930-0972 (electronic). See also [BTC+41].

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[TT36] V. Thébault and M. J. Turner. Problems and solutions: Elementary problems: Solutions: E183. *American Mathematical Monthly*, 43(5):308–309, May 1936. CODEN AMMYAE. ISSN 0002-9890 (print), 1930-0972 (electronic). See also [GLT+35].

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[TT56a] Olga Taussky and John Todd. Commuting bilinear transformations and matrices. *Journal of the Washington Academy of Sciences*, 46 (12):373–375, December 1956. CODEN JWASA3. ISSN 0043-0439. URL `https://www.jstor.org/stable/24533908`.

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[TT56b] Olga Taussky and John Todd. Generation and testing of pseudo-random numbers. In Meyer [Mey56], pages 15–28. LCCN QA273 U577.

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[Tur53] A. M. Turing. Some calculations of the Riemann zeta-function. *Proc. London Math. Soc. (2)*, 3(3):99–117, 1953. CODEN PLMTAL. ISSN 0024-6115 (print), 1460-244X (electronic). URL `http://turing.ecs.soton.ac.uk/browse.php/B/21`. See corrections and improvements [**?**], and [**?**]. The latter comments: "Turing's Method has become the standard technique used in modern verification of the Riemann hypothesis." See also [Leh56d].

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[TyH39] H. P. Thielman and Hsien yu Hsu. Problems and solutions: Solutions: 3836. *American Mathematical Monthly*, 46(8):517–520, October 1939. CODEN AMMYAE. ISSN 0002-9890 (print), 1930-0972 (electronic). See also [TP40, WLE+37].

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[UC63] Peter Ungar and F. P. Callahan, Jr. Advanced problems and solutions: Solutions: 5041. *American Mathematical Monthly*, 70(7): 770, August/September 1963. CODEN AMMYAE. ISSN 0002-9890 (print), 1930-0972 (electronic). See also [Mak62].

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[Uhl46] Horace S. Uhler. A new result concerning a Mersenne number. *Mathematical Tables and Other Aids to Computation*, 2(14):94, April 1946. CODEN MTTCAS. ISSN 0891-6837 (print), 2326-4853 (electronic).

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[Uhl49a] Horace Scudder Uhler. The Arabian Nights' factorial and the weighted-mean factorial. *Scripta Mathematica*, 15(??):94–96, ???? 1949. ISSN 0036-9713.

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[Uhl49b] Horace Scudder Uhler. Table of exact values of high powers of 2. *Scripta Mathematica*, 15(??):247–251, ???? 1949. ISSN 0036-9713.

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[Uhl55] Horace S. Uhler. Nine exact factorials between 449! and 751!. *Scripta Mathematica*, 21(??):138–145, ???? 1955. ISSN 0036-9713.

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[Ver17] Tom Verhoeff. The spurs of D. H. Lehmer: Hamiltonian paths in neighbor-swap graphs of permutations. *Designs, Codes, and Cryptography*, 84(1–2):295–310, July 2017. CODEN DCCREC. ISSN 0925-1022 (print), 1573-7586 (electronic). URL `https://link.springer.com/content/pdf/10.1007/s10623-016-0301-9.pdf`.

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[vI17] Jan-Willem M. van Ittersum. A group-invariant version of Lehmer's conjecture on heights. *Journal of Number Theory*, 171(??):145–154, February 2017. CODEN JNUTA9. ISSN 0022-314X (print), 1096-1658 (electronic). URL `http://www.sciencedirect.com/science/article/pii/S0022314X16301986`.

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[vNG53] John von Neumann and H. H. Goldstine. A numerical study of a conjecture of Kummer. *Mathematical Tables and Other Aids to Computation*, 7:133–134, 1953. CODEN MTTCAS. ISSN 0891-6837. Reprinted in [**?**, Paper 24].

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[Vou95] Paul M. Voutier. Primitive divisors of Lucas and Lehmer sequences. *Mathematics of Computation*, 64(210):869–888, April 1995. CODEN MCMPAF. ISSN 0025-5718 (print), 1088-6842 (electronic).

**Vouk:1992:PAS**

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