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Title word cross-reference

\$ [Cou11]. $(a + b)^p$ [Jam14e]. $(a + b)^p + (a - b)^p$ [Jam14e]. $(a, b, b + 1)$ [HJ19].
 $1/x$ [Geo10]. **\$12-95** [Rua12]. **\$129.00** [Sch14]. **\$14.95** [LP10]. **\$14.99**
[Lev12c]. 15 [Lor12i]. **\$16.95** [Tol15c]. **\$16.99** [Tol15f]. **\$18.99** [Mac14d].
\$19 [Lor17g]. **\$19.95** [Ban14b]. **\$19.99** [Tol19f]. **\$195** [Cou14]. 1:2 [Nic14b].
\$23.99 [Hal11c, Hud10a]. **\$24** [Lev14e]. **\$24.95** [Lev10f, Tol17g]. **\$26**
[Lev14p]. **\$26.99** [Tol17e]. **\$27** [Lor18f]. **\$27-00** [Lev14h]. **\$27-95** [Gri14b].
\$27.95 [Lev14n, Tol17i]. **\$29** [Gri10b, Hud10c]. **\$29.95** [Hun13d]. **\$29.99**
[Tol17b]. $2 < e < 3$ [Lor11m]. $2^{67} - 1$ [Shi15d]. 3
[CP10, Had19, Rot10d, dVS18]. **\$30.00** [Jac19, Mac18]. **\$32** [Lor11g].
\$32.00 [Tol15d]. **\$35.00** [And13b]. **\$36.39** [Shi16b]. **\$39** [Lev10e]. **\$39.00**
[Shi10i]. **\$39.20** [Hun17d]. **\$39.95** [Lor17e]. 3×3 [Bea17a, Lor15f]. 4
[Rot10d]. **\$42.00** [Hun14a]. **\$45.00** [Cou10, Mac16c]. **\$49-00** [Gib10b].
\$49.00 [Ban10a, Hun13c]. **\$49.95** [Tol17f]. 5 [Lor12i]. **\$50** [Lev11d, Lor18e].
\$56.00 [Shi17a]. **\$59** [App11]. **\$59-00** [Hud11a]. **\$59.95** [Lev13g, Yeo16].

\$60 [De 14b]. 60 [Lor12i]. **\$68.95** [Lev14k]. **\$69.95** [Lea10]. $6n \pm 1$ [Lor14].
\$70 [Had19]. **\$70.50** [Shi18b]. **\$75.00** [Eat12]. **\$79-00** [For12]. **\$79.95**
 [Lev12a]. **\$94.95** [App10a]. **\$97.50** [App10b]. $[x]$ [Orm14]. ² [LRQ10]. a
 [AT12]. $A + B + C = \pi$ [Sub18b]. $A/(x + B) + C/(x + D)$ [Cel17]. **\$A115**
 [Lev17e]. a^a [AT12]. $a^n = b^n + c^n$ [Lor15b]. $\arctan(x)$ [Den10].

$aX^2 + bXY + cY^2 = dZ^2$ [Pla14]. b [Coo19]. $\binom{n+1}{2}$ [DeM10]. \cdot [KK10].

$\csc 2x = \cot x - \cot 2x$ [Cha15]. $\deg(0) = -\infty$ [Haj17e]. e [Bro12a, Mac10d].
 $e < 2$ [Shi14a]. $e < 3$ [You13]. $e^{1/M}$ [Ton16]. $e^x \geq 1 + x$ [Lor17c]. $\exp(-x^2)$
 [Che18]. F [All18, MW18, Pla16]. $f(x)/x$ [MW18]. $\Gamma^2(1/2)$ [MGC13a].

$I(\alpha) = \int_0^\infty 1/(1+x^\alpha)^2 dx$ [Mur12]. $\int_0^1 1/(1+x^2) dx = \pi/4$ [You11b].

$\int_0^\infty 1/(1+x^2) dx = \pi/2$ [You11a]. $\int_0^\infty \frac{\sin x}{x} dx$ [Lor16e]. $\int_0^\infty \sin(x)/x dx$

[Sik18]. $\int_0^\infty |\sin^a(x) + \cos^b(x)|/x^p dx$ [Mur11c]. $\int_0^\pi \log(2 \sin u) du$ [Mer19].

$\int \csc x dx$ [JO14]. k [ES11, PdVF14]. $\lim_{m \rightarrow \infty} \sum_{k=0}^m \left(\frac{k}{m}\right)^m$ [Lor16a].

$\ln 2 < 1\sqrt{2}$ [Lor14k]. $\log x$ [OJN16]. $\mathbf{Z}\sqrt{[10]}$ [Sim19]. $m \times (m+1)$ [EM16]. $n!$

[Lor17b]. N [PdVF14, Ber18, Lor17b, Ste19a]. $n(x+y+z) = xyz$ [Dol16a].

$n = 3$ [Bar17]. n^2 [DeM10]. p [Hun14b, Sch11]. $p/\sin \theta + q/\cos \theta = 1$ [Sta18].

$p > 1$ [Nil13]. $\phi(m) = k!$ [Shi13b, Sur14]. π

[Hir11e, Lev12f, Lip13, Lor12a, Lor19a, Lor19e, Mac10d, MGC13a, NL16,

Osl10a, Osl11b, Osl12b, SS12, Shi14a, You12, Zor11]. $\pi \ln k$ [Pla11a].

$\prod_{n=2}^\infty \zeta(n)$ [Ökt15]. $py^2 = x^4 + x$ [Dol13a, ZF10]. $\text{Si}(x)$ [JLM15]. $\sigma(n) = k!$

[Shi13b]. $\sin^2 A + \sin^2 B + \sin^2 C = 4 \sin A \sin B \sin C$ [Sub18b]. $\sin^n x/x^m$

[Tra10]. $\text{SL}(2, p)$ [Suc11]. \sqrt{x} , $\sqrt[3]{3}$ [Hir11h]. $\sqrt{2}$

[Lor15l, Lor17h, MGC13b, Raj18, Ste12b]. $\sqrt{2\pi}$ [Lor15c]. \sqrt{abcd} [Lor12g]. \sqrt{d}

[Yan14]. \sqrt{N} [Lor18a]. $\sum_1^n r(r+1)$ [Lor14i]. $\sum_1^n r^2$ [Lor14i].

$\sum_{k=1}^\infty 1/k^2 = \pi^2/6$ [Lor16f]. $\sum_{n=1}^\infty 1/n^2$ [JL13]. $\sum_{n=1}^\infty 1/n^p$ [Nil13].

$T_1 + T_2 + \dots + T_n = \binom{n+2}{3}$ [Sub15a]. \times [Har10a]. $x^2 + ry^2 = z^2$ [Rea19].

$x^2 + z^2$ [Dol17a]. $\zeta(2)$ [Shi16a, Sik18]. $\zeta(2) = \pi^2/6$ [Jam13c]. $\zeta(2n)$ [Lor14c].

$\zeta(3)$ [Hir11d, Jam14f]. $\zeta(n)$ [Jam14d]. $|x|$ [Orm14].

-adic [Hun14b, Sch11]. **-D** [dVS18]. **-dimensional** [CP10]. **-folds**

[Rot10d, Rot10d]. **-gonal** [ES11]. **-gons** [Lor12i]. **-mean** [Pla16]. **-ratio**

[All18]. **-Spinout** [Coo19].

\cdot [Jon19].

0-521-61999-8 [Lev10c]. **0-691-13576-2** [Mac10b]. **0-906588-67-7**

[Hal10b]. **0-907669-46-8** [Kil10]. **0-9516701-8-2** [Rot10a].

1 [BL12]. **1-56881-234-5** [Mah10b]. **100.C** [Ret17]. **100.I** [Bea18a]. **1000**

[Yeo17a, Yeo17a]. **101.F** [Gib19a]. **117-00** [Shi11d]. **13-978-1-4020-8886-5**

[Sch10]. **1439-7382** [App14b]. **15-00** [Hun10b]. **15th** [Lor16d]. **17** [Gri14a].

18th [FR02]. **19-99** [Hal10b]. **1908-2008** [M⁺08]. **1997** [Sch14]. **1997-2011** [Sch14]. **19th** [GG10a, Cra07, FR02]. **1st** [Fre15].

2010 [Lev12d]. **2011** [Lev14l, Sch14]. **2012** [Hun16, Lev14m]. **2013** [Lev15b]. **2013.ISBN** [Lev14e]. **2014** [Ano14a]. **2015** [Ano14f, Ano15d, Lev17g]. **2016** [How16, Mac17, Lev18d, Tol15g]. **2017** [Gol17]. **2019** [Ano18f, Ano19c, Aul19, How19]. **2020** [Ano19d]. **2025** [Sto14c]. **20th** [Lev15a]. **21st** [Ano12d, Aul19, Rou13a]. **22-50** [De 11b]. **23-99** [Hal10b]. **24th** [Kum11]. **2nd** [Bay11a, Cou17b, Gib17a, Gri11d, Hal11c, Hud11a, Hun17d, Jon19, Lor14e, Shi10i, Shi10g, Sut10].

3-folds [Cor07]. **31st** [Aul19]. **387** [App10b]. **3D** [De 13]. **3rd** [Bay14a, Gib11c, Gri17d, Mun12, Shi15c, Shi16b, Tol16c].

4 [Cri15a, Sut10]. **4-folds** [Cor07]. **44-99** [Hai10]. **4th** [Gri14e, Lor10e, Mac10c].

5 [Mac13b]. **5-99** [Hal10a]. **50** [Lev10a, War10a]. **55th** [Ano14a]. **56-00** [Mah10b].

6 [Pea11, Hal13]. **61614-423-4** [Lev14h].

70-99 [Mun12].

8-99 [Bay10a, Wil10].

9 [Gri14b]. **9-789813-2026-10** [Lor18d]. **9-789814-651639** [Lor17f]. **90-50** [Gri14e]. **90th** [Sut11, GDDR08]. **977-1-84724-008-8** [Lev10a].

978-0-00-743808-2 [Hal13]. **978-0-00-747601-5** [Hal14].

978-0-128-04153-6 [Hun18a]. **978-0-12804-317-2** [Tol18b].

978-0-12814-759-7 [Hun19a]. **978-0-14-103023-4** [Lor10e].

978-0-19-280722-9 [Wil10]. **978-0-19-531076-4** [Lev12a].

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978-0-19-875335-3 [Gib17b]. **978-0-19-875523-4** [Hop18b].

978-0-19-879492-9 [Lor18f]. **978-0-19-880454-3** [Gib18b, McB18].

978-0-19-911779-6 [Dav10]. **978-0-19-911780-2** [Rot10b].

978-0-19-911781-9 [Gol10]. **978-0-19-911782-6** [Hal10c].

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978-0-19-921986-5 [And10a, And10b]. **978-0-19-922730-3** [Shi10e, Shi10f].

978-0-19-923769-2 [War11a]. **978-0-19-928201-2** [Mac10c].

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978-0-19-958405-5 [Cri13]. 978-0-19-959968-4 [Lev14o].
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 978-0-19875-547-0 [Bay19b]. 978-0-19878-828-7 [Tol18a].
 978-0-230-25208-0 [Gri13b, Mac13a]. 978-0-262-51429-3 [Haw12].
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 978-0-387-79714-4 [Gib10c]. 978-0-387-79851-6 [Hun12b].
 978-0-387-85528-8 [Shi10d]. 978-0-387-87858-4 [Hai12].
 978-0-387-89491-1 [Shi11d]. 978-0-393-07195-5 [Lev14f].
 978-0-444-63555-6 [Gib17a]. 978-0-465-00910-7 [Lev10f].
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 978-0-465-02331-8 [Lev14c]. 978-0-465-02837-5 [Mac14d].
 978-0-465-03292-1 [Lev13f]. 978-0-465-05074-1 [Lev14d].
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 978-1-119-12792-5 [Hai17a]. 978-1-13803-016-9 [Tol19b].
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Bloomsbury [Gib19c, Gri17c, Lev13b, Sto14b]. **blunder** [Smy10]. **Blythe** [Pat17]. **body** [Sto17a]. **Bogdan** [Yeo16]. **Bombelli** [Tra13]. **Bóna** [Gri18c]. **Bondi** [Cla18]. **Book** [And10a, And10b, And11, And13c, And13a, And13b, And13d, And19, App10b, App10a, App11, App14b, App14a, App18, Ban10a, Ban10c, Ban10b, Ban13, Ban14b, Ban14a, Bay10c, Bay10b, Bay10a, Bay11b, Bay11a, Bay12, Bay14a, Bay14b, Bay14c, Bay14d, Bay15b, Bay15a, Bay17b, Bay17a, Bay17c, Bay17d, Bay19b, Bay19a, Bev13, Bev14, Bev17, Cam18, Cou10, Cou11, Cou12, Cou13, Cou14, Cou15, Cou17a, Cou17b, Cou18, Cou19, Cri13, Cri15b, Cri15a, Cri17a, Dav10, Dav15, Dav17, Dav18, De 10b, De 10a, De 11b, De 14c, De 14b, De 17, Eat11, Eat12, Eat13, For10a, For10b, For11, For12, For13, Fos14b, Fox15, Fox17, Fre10a, Fre10b, Fre15, Gib10a, Gib10c, Gib10b, Gib11b, Gib11c, Gib11a, Gib12b, Gib12a, Gib13b, Gib13a, Gib14b, Gib14c, Gib17a, Gib17c, Gib17b]. **Book** [Gib18a, Gib18b, Gib19b, Gib19c, Gol10, GG10a, GG12c, Gri10b, Gri11d, Gri11e, Gri11b, Gri11c, Gri12f, Gri13a, Gri13b, Gri13d, Gri13c, Gri13f, Gri14f, Gri14a, Gri14e, Gri14b, Gri14c, Gri14d, Gri17c, Gri17d, Gri18d, Gri18e, Gri18c, Had19, Hai10, Hai12, Hai13, Hai15, Hai17a, Hai17b, Hal10c, Hal10a, Hal10b, Hal11b, Hal11c, Hal11a, Hal12b, Hal13, Hal14, Hal15a, Hal15b, Hal16, Hal17a, Hal17b, Hal17c, Hal17d, Hal19, Haw11, Haw12, Haw18b, Haw18a, Haw18c, Hem19, Hoa10, Hoa11, Hoa12, Hoa13a, Hoa14a, Hoa14b, Hoa15a, Hoa15b, Hoa17a, Hoa18a, Hoa19, Hop18a, Hop18b, Hop19, Hor17, Hud10c, Hud10b, Hud10a, Hud11a, Hud11b, Hud13a, Hud13b, Hun10b, Hun10a, Hun12b, Hun12a, Hun13d, Hun13c, Hun13b, Hun13a, Hun14b, Hun14a, Hun15, Hun16, Hun17a, Hun17b, Hun17c]. **Book** [Hun17d, Hun17e, Hun18b, Hun18a, Hun18c, Hun19b, Hun19a, Hun17f, Jac14, Jac19, Jon19, Kee18, Kil10, LP10, Lea10, Lee17, Lev10d, Lev10f, Lev10e, Lev10a, Lev10b, Lev10c, Lev11b, Lev11d, Lev11a, Lev11e, Lev11c, Lev11f, Lev12a, Lev12d, Lev12b, Lev12c, Lev13e, Lev13c, Lev13b, Lev13h, Lev13a, Lev13g, Lev13f, Lev13d, Lev14e, Lev14i, Lev14n, Lev14o, Lev14k, Lev14l, Lev14j, Lev14c, Lev14h, Lev14p, Lev14b, Lev14m, Lev14a, Lev14d, Lev14f, Lev14g, Lev15b, Lev15a, Lev17g, Lev17h, Lev17a, Lev17b, Lev17c, Lev17e, Lev17d, Lev17f, Lev17i, Lev18d, Lev18c, Lev18b, Lev19b, Lor10e, Lor10d, Lor10c, Lor11g, Lor11h, Lor11f, Lor11i, Lor13d, Lor14f, Lor14e, Lor14d, Lor15g, Lor15i, Lor15h, Lor16c, Lor16b, Lor17g, Lor17e, Lor17f, Lor18f, Lor18d, Lor18e, Mac10b]. **Book** [Mac10c, Mac10a, Mac11b, Mac12b, Mac13e, Mac13a, Mac13c, Mac13b, Mac13d, Mac14b, Mac14c, Mac14d, Mac14a, Mac15a, Mac15b, Mac15c, Mac19, Mac16a, Mac16b, Mac16c, Mac17, Mac18, Mah10b, McB18, Meg12, Mor19, Mun12, Nai12, Pas14, Pas18, Pat17, Rot10c, Rot10d, Rot10b, Rot10a, Rou13a, Rou14, Rou16, Row19, Rua10, Rua11, Rua12, Rua13, Rua14c, Rua14a, Rua14b, Rua17, Sch10, Sch13, Sch14, Sch16b, Sch16c, Shi10e, Shi10f, Shi10c, Shi10i, Shi10g, Shi10d, Shi10h, Shi11e, Shi11d, Shi12c, Shi13c, Shi14d, Shi14b, Shi14c, Shi14e, Shi15c, Shi15a, Shi15b, Shi16b, Shi17a, Shi17b, Shi18b, Shi18a, Shi19c, Sto10b, Sto10a, Sto12c, Sto12b, Sto12a, Sto14a, Sto14b, Sto14c, Sto17b, Sto17a, Sut10, Sut11, Ten12,

Tin17, Tol10, Tol13, Tol14b, Tol14a, Tol14c, Tol15b, Tol15e, Tol15c]. **Book** [Tol15g, Tol15a, Tol15d, Tol15f, Tol16a, Tol16d, Tol16c, Tol16b, Tol16e, Tol17a, Tol17b, Tol17c, Tol17d, Tol17e, Tol17g, Tol17f, Tol17h, Tol17i, Tol17k, Tol17j, Tol18a, Tol18b, Tol18e, Tol18c, Tol18d, Tol18f, Tol19a, Tol19d, Tol19g, Tol19b, Tol19c, Tol19f, Tol19e, Tsa18, Von17, War10a, War10c, War10b, War11a, War11b, War12a, War13a, War13b, War13c, Wil10, Yeo16, Yeo17a, Yeo17b, Yeo17c, Yeo17d, Yeo18a, Yeo18b, Yeo18c, Zar10b, Zar10a, Zar11, Zet13, Zet18, Zet19, dV14, AD08, GG08a, Soi09a, Lea10]. **Bookguild** [Hor17]. **Books** [Ano14c, Ano16a, Ano17a, Bay14d, Dav18, Gri13c, Haw18c, Hem19, Hoa19, Hud11b, Jac19, Lev10d, Lev10f, Lev11c, Lev13c, Lev13f, Lev14e, Lev14c, Lev14h, Lev14p, Lev14d, Lev17h, Lev17c, Lor17g, Lor18f, Mac14d, Mac14a, Mac18, Tol10, Tol15f, Tol17b, Tol17c, Tol17e, Tol18e, Tol19f, Zet13]. **booster** [Hal13, Pea11]. **bootstrapping** [Shi11a]. **Borel** [Col19]. **born** [CT14]. **Borovik** [Sto12c]. **Borwein** [Ban10a]. **Botelho** [Shi19c]. **both** [Gri16b]. **bound** [Nic11, SS11]. **boundaries** [AZY12, Per12]. **boundary** [Job13a]. **bounds** [Gus15, KK10, Sch16c, Tor17]. **bowls** [HI14]. **box** [Sim16]. **Boyd** [Tol19c]. **boys** [CT14]. **Bradley** [Mac12b]. **brain** [Grä11, War13b, War13c]. **brainteaser** [Ros09, Bay11b]. **Brams** [Hud10c]. **Breach** [Gri13b, Mac13a]. **breaking** [Yeo18b]. **breakthrough** [Ges11, Gri13c]. **Brian** [Fre10b, Gol10, Hun17b, Rot10b, Tol18d]. **Bride** [LRQ10]. **bridge** [Lev08, Sto10a]. **brief** [Gib19c, Rua17]. **Brilliance** [Kan17]. **bringing** [Hol17]. **Britain** [FRW11, War12b, Lev13e]. **British** [GG10a, Cra07]. **Brouncker** [Hir11e, Osl11b, Osl12b]. **Brouwer** [Pas14, vDD13]. **Brown** [Bay17c]. **Bruce** [Lev17f, Zar11]. **Brummelen** [Rua11, Rua14b]. **Bryan** [Dol15b]. **Bug** [Tal13]. **buildings** [Hah12, And13d]. **Bulajich** [Rou16]. **bundles** [Cou14, Tau11, Gib13a]. **Burgiel** [Eat12]. **Bürgisser** [Cou15, Cou17a]. **Burkhard** [Lev13d]. **Burn** [Tol16c, Yeo18a, Tol17b]. **Burness** [Hun18b]. **Burning** [Vil11]. **Burns** [dV14]. **Burton** [Ten12]. **Butler** [Hop19]. **bytes** [Tin17]. **byways** [Eat11].

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[And13b, Bay19a, Cou14, Hoa10, Hun17b, Hun18b, Mac12b, Mac14c, Tol16b]. **C.** [SB⁺12, Sil10]. **C.J** [dV14]. **C1** [Dav10, Hin08]. **C2** [Dav10, Hin08]. **cabinet** [Ste08, Ste09a, Ste09b, Tol10]. **Cable** [Pur18]. **Cakes** [Hem19]. **calc** [Ada09b, Lor11g]. **calculating** [Abe16, Hir11h]. **Calculation** [Lor19e]. **calculations** [vW19]. **calculator** [Lor14k, SLMRR10]. **Calculus** [HB16, Kör14, App10b, AM15, Bay15b, Bay17a, DN11, Fer14, Haw18b, Hir11b, Hun19b, Lor15m, Lor17i, Mac14c, Mac16c, MP11, McA10, McB18, Ric08a, RJPG12, R⁺12, Rza10, Shi16b, Shi17a, Pat17, Spo18, App14b, Gib18b, Hop18a, Shi18b, Tol15a]. **calculus-based** [Rza10]. **Calendar** [Tol15g, Sta19a]. **Calinger** [Hoa17a]. **call** [Lor17g]. **Cambridge** [Bay10a, Bay15a, Bev17, Cam18, Cou17b, Cou19, Fre10a, GG10a, Hal16, Haw18a, Hoa15a, Hop19, Hun18b, Lee17, Lev10c, Lev17a, Mac15a, Shi18a, Sto17a, Sut11, Tol15a, Tol16d, Tol16c, Tol16b, Tol16e, Tol17j, Tol19g, Tol19c,

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 Dav10, De 11b, Dev08, Duf11, Eat11, For10b, Fos14b, FR02, FR08, Fyf11,
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sides [Tol19a]. **Sigma** [Gib19c]. **Sign** [Zho13, HP10a]. **signals** [MD10, For12]. **Significant** [Bra11b, Dav18]. **signs** [Nur14a]. **Silberstein** [Eat13]. **Silva** [Shi19c]. **Similar** [Leu12b, Leu12a, Lor14j, Ste17e]. **simple** [Far13, JJ13b, Jam15d, Mel13, Mur17, Nur13, Shi11e, Sle12, TL16, Ton16, Wil09]. **simplest** [Haj15a, Jam10a]. **simplices** [Haj18b]. **Simpson** [Bea18b]. **Simson** [Smi15, Qua12b]. **simulation** [Mac10a, Vel09]. **Simultaneous** [Lor12i]. **Sinclair** [Sto17a]. **Sine** [Jam15e, Gib14a]. **sines** [Rou13b]. **Singapore** [Lev11d, Mer15]. **Singh** [Mac16a]. **single** [Bay17a, Gib11a, Jam16b]. **singular** [Lor15f]. **Siobhan** [Gri17c]. **Sir** [How19, Ste16b]. **Six** [Rea10b, Lev12c]. **sixth** [And10a, And10b]. **size** [Nic14a]. **sized** [Lor17h]. **sizes** [KK10]. **skew** [Job13a]. **Skinner** [Hal10a]. **Skyrms** [Tol18d]. **sledge** [Sim12]. **slices** [FJ10]. **Slide** [Hop13]. **Sliding** [HI14, De13, Gla12, KL11, Luz16]. **Slot** [Yeo18c]. **slowly** [Ben12a, Coo11a, Gri15h, Shi19a]. **Small** [Cou13]. **Smith** [Mac10c, Zar10a]. **Smullyan** [Hoa18a]. **snakes** [GS11]. **snapshots** [DLP08, Gib10a]. **sociable** [Kee13]. **Society** [Gib19b, Gri11e, Gri11b, Gri12f, Hoa13a, Hun14a, Hun17d, Lev11b, Lor11g, Lor11f, Lor14f, Sto12c]. **Sofya** [Gib13b, Aud11]. **Soifer** [Bay11a, Lor11h]. **solid** [Mac11a]. **solution** [Kul13b, Sta18, YF12]. **solutions** [Baj13, May16, Pla10c, Pla14, Sur14, ZF10, Shi13b, App18, Yeo18c]. **solve** [Che19, Fer16, Jam16b, Kul13c, Lev09]. **solver** [Job13c, Rou14]. **Solving** [Ano14q, Kac17, Bay11a, Bay12, Hal17d, Hal19, Hol11, Hol13b, Lev17e, Lor14d, Mah10a, Soi09b, SLMRR10, TL16, Tra13, dV14, Col15, Haw12, Lor17f, Yeo17c]. **Soma** [Sut11, GG08b]. **Some** [And17, Fox16, Haj15b, JJ13b, Jam14e, NL16, Pla11c, Ste17f, li17, Abb15, Baj13, Gri12a, IS12, Mur11a, Pat15, Pla11a, Pla14, Ram09, Ste17e, SA16, Gri12e, Jam14f, KG11, Kos12a, Siu13]. **Somerville** [Tol14b, Ari12]. **sonnet** [McG13]. **Sons** [App10b, Hai17a, Mac14c]. **Sophie** [Lev14k]. **Sourcebook** [Cri17a]. **space** [App10a, Pur18, Rop18, YN10, YN12, Mac14d]. **spaced** [Haj17b]. **spaces** [App11, Osb13, Shi10g, Sut09, VV09, Lor15h]. **spade** [Shi12b]. **spatial** [VM19]. **speaking** [BEU12, Tol14c]. **special** [Bra12, Lor15e, McN14, OS15, Jac19, Lev17f]. **specified** [Hal13]. **specious** [Mar11]. **Speigelhalter** [Tol17j]. **sphere** [Pop12]. **spheres** [Ara15, Fox14, Nun13, Pop12, Gib14b]. **spherical** [CR16, Lor18b, Rua14b, Van13]. **Spieker** [Sco19b]. **Spindown** [CC18]. **Spinout** [Coo19]. **spirals** [Die19]. **spiographic** [Ber17]. **Splitting** [Gor13]. **spreadsheet** [Mur11b]. **Spreitzer** [Tol18e]. **Sprent** [Ban10b]. **Springer** [App11, App14b, Ban14a, Bay11a, Bay17a, Bay17c, Cou15, Cou17a, Eat13, Fox17, Gib10c, Gib12a, Gib13b, GG10a, GG12c, Gri13a, Gri13d, Gri14d, Hai10, Hai12, Hai15, Hal19, Hoa11, Hun12b, Hun14b, Hun16, Hun17b, Hun17c, Lev11a, Lev12b, Lev13g, Lor10c, Lor11h, Lor13d, Lor15h, Lor16c, Lor16b, Meg12, Pas14, Sch10, Sch16c, Shi10d, Shi11e, Shi11d, Shi12c, Shi14d, Shi14c, Shi15c, Shi15a, Shi16b, Shi19c, Tol14c, Tol17h, Tol19a, War12a]. **Springer-Verlag** [App11, Gib13b, Pas14]. **Spurt** [Gro11]. **Spurtacular** [SG12]. **Square** [Pis16, Ber15, Ber18, Cam16, Cri12a, Edg16, Eul15, ES16,

GG12a, GV17, Hir11f, Jac11, Jam10b, Job13a, KR17, Lev18b, Lor18c, McL19b, ML13, Sch16a, Sco15a, Shi16d, Ste19a, Sub14b, SB19, Sut10, Szy17]. **square-free** [Jam10b]. **squared** [Haj17b]. **squares** [AM11, BT09, CDF18, Dol12b, Dol18b, Dol19a, EM12, Fos12e, Gib17a, GV15, Hir11f, Jam10a, Jam19a, Kee11, Lor10i, Mah13b, Nic14a, Sco18f, Shi13d, Fos12e, Lor12c, War10b]. **Squaring** [Szy19]. **Srirangachari** [SB⁺12]. **Srivastava** [Hun15]. **Stability** [Ter09, Rob12, Mac11b]. **stabilization** [Mac11b, Ter09]. **Stable** [Bea15a, Gri11g]. **Stacey** [Ten12]. **stacking** [Chu18]. **Stahl** [Lor14e]. **Stanley** [Gri17d, Lev17a]. **starships** [Adl14, Mac15c]. **state** [Rou13c]. **static** [De14]. **statistical** [BHH10, FFGH09, Hal11a, Sch10, Tol17k]. **Statistics** [Kra09, Nic08b, Pat17, Tol14e, Gri13a, Hor14, Leh11, Mar16, MMC09, Nic08a, Tol14d, Tol15e, Whe13, Hai17a, Lev14f, Lev19b, Lor11i, Tol18b, Tol19e, Zar11, Gri11d, Hai17b, Hal10c, Hal11c]. **stats** [Min12]. **Staudt** [Rza10]. **steadiness** [Kan17]. **Stedall** [Lev14o]. **Stein** [Tol17g, Zet13]. **Steiner** [Hun13d, Abb15, ASH19a, Bea19, CR14, Dac16, Haj17c, Hva11, Sco17d]. **Steinhaus** [Ste16a]. **step** [Cag18, Mac16a, Lor18h, Sik12, Mac16a]. **Stephan** [Shi18a]. **Stephen** [Gib12b, Hal17d, Hun13c, Mac13c, Tol17k, Tol19c]. **Stephenson** [Ano14n]. **steps** [Tol16c]. **Sterrett** [Hoa14b]. **Steve** [Hop19, Mac14d]. **Steven** [Bay14a, Hud10c]. **Stewart** [And19, Bay14d, Dav18, Gri14f, Gri14a, Haw11, Hop18b, Lev10d, Lev11c, Sto17b, Tol10, Tol15f, Ste08, Ste09a, Ste09b, Ste14]. **Stigler** [Tol17k]. **Stillwell** [Hoa12, Lor17e]. **stimulants** [Bat14]. **Stipp** [Lor18f]. **Stirling** [Gri12d, Jam15b, Jam15d, LN17, Lor15c]. **Stochastic** [KS14, For12, MD10, Sch16c, App14a]. **stochastics** [Çin11, Hai12]. **stock** [GS11]. **Stoica** [Cou12]. **Stop** [HP10a, PdVF14]. **Stop-sign** [HP10a]. **stor** [Bro12a]. **stor-** [Bro12a]. **stories** [Ada09b, Gri14d, Hun12a, LPE⁺12, Lor11g]. **story** [And13c, Bag11, Bay11b, Gib17b, Gib18b, Gri13f, Gri18e, Hav12, McB18, Ros09]. **Stothers** [Gib11c]. **Strähle** [RR11]. **straight** [Ban18, GG12a, Lor13i]. **Strange** [GG08c, Lev10e]. **strategic** [Smy10]. **Strategies** [Joh12, And17, Lor17f]. **Strategy** [Hal17d]. **Strauss** [Eat12]. **streams** [Fos18]. **Street** [Mah10a, Haw12]. **Street-fighting** [Mah10a, Haw12]. **strictly** [MM15]. **string** [YN10, YN12]. **strings** [Ada10, Lew14, War13a]. **stripping** [Whe13]. **structure** [Hud10a, Hun15, JST12]. **Stubhaug** [Gib12a]. **Student** [BL12, Cro10, Dol10a, Dol10b, Dol11c, Dol11d, Dol11e, Dol12e, Dol12f, Dol12g, Dol13b, Dol13c, Dol13d, Dol14b, Dol14c, Dol14d, Dol15c, Dol15d, Dol15e, Dol16c, Dol17c, Dol17d, Dol17e, Dol18c, Dol18d, Dol18e, Dol19e, Dol19c, Dol19d, Hal14]. **students** [Bau13, Iva09, Lor17i, Yeo17c, Lor11f]. **studies** [Mac14c, RJPG12, R⁺12]. **Study** [Alc12, Alc13, FMK18, Fos14b, Hal17a, Hal17c, Sto14a]. **Studying** [Cel17]. **Stylianides** [Hun17f]. **subdivision** [Pop12]. **subsets** [Mez14, Pla14]. **substitution** [Hos17a, Ste17e]. **subtle** [Wel12]. **subtraction** [Gau19]. **subtriangles** [Lor13b]. **Success** [Hal12b, Gri14d, LPE⁺12, Hal12b]. **Sudoku**

[Bev13, BT09, Kee18, FF19, RT11, War10b, Job10, MM12]. **sudokus** [SLMRR10]. **Sue** [Hal14]. **suggestion** [Kan17]. **suitable** [BCSS19]. **Suk** [Von17]. **Suk-Young** [Von17]. **Sulbasutras** [Ste12b]. **Sultan** [Yeo17c]. **Sum** [NS87, Ber18, Gri12b, Gri15e, Haj17b, Hir11f, Job18b, Lor16g, Nur13, Sco14c, Sco18f, Shi19d, Ste19a]. **Summing** [Sub14b, Gri12e, Shi17b, Tol17i]. **Sums** [AM11, Bur10b, KR17, MGC19, Bra17, Cag18, Cer16, Cri12a, Der15, Der19, GB12, Gri15c, Jam15b, Jam17, Jam19a, JLU10, Loo11, Lor15a, Osl12a, Shi13d, Tre17, Tsa11]. **Sundar** [App14a]. **Superbrain** [Lev11e]. **support** [BL12, Hal14]. **surd** [Vil15]. **surely** [Ben12a]. **surface** [Jew10, Sim11b, Vil14a]. **surfaces** [BL10, EF10, Hun13c]. **surprising** [ES16, Hir11d, Lor13h, dVS18]. **survey** [JM09a, JM09b]. **surveying** [Lam19]. **Susskind** [Jac19]. **Sutherland** [Shi10g]. **Swetz** [And13a, Sut10]. **Sylvester** [De 12]. **symbolic** [Lev12f]. **symbols** [Lor15g, Maz14, Pas11b]. **symmetric** [App11, Bea12c, Dol19b, Far18, Mac14e, VV09, Gri11a]. **Symmetrical** [Fos12a]. **symmetries** [CBGS08, Eat12]. **Symmetry** [GW09, HS13, Ron07, Yan14, Cou12, HTSE09, KK17, Leu18, Lev17b, Shi14e, Hun12b, Wil10]. **system** [Pla10c, Shi14b, Shi18c]. **Systematic** [Mac14c, RJPG12, R⁺12]. **Systems** [Hun10a, ÅM08, AF12, Gue08, Mac10b, Sma12, Cou10, Cou13]. **Szpiro** [Gri11b, Hud13b].

T [Gri11c, Gri14d, Tol15a]. **T.O** [dV14]. **Taalman** [Bev13, Kee18]. **table** [Bur10c, Cri10, Nie10, Pis16, Pur11]. **tables** [Bea15a, Osl10a]. **tackles** [Lor11d]. **tactics** [Lev17e]. **Taking** [RT11, Fos12c, Bev13, Kee18]. **Talagrand** [Sch16c]. **tale** [Bau13, Dev08, Gro18]. **talented** [Lev17f]. **tales** [AG14, Tol15c]. **Tall** [Hal16, Sto17b]. **Taming** [KP14, Hoa15b]. **Tammadge** [How16]. **Tan** [Shi17a, Gla19]. **tangent** [Sco11d]. **tangential** [GOD18a, Jos17a, Jos17c]. **Tangents** [Gla13]. **Tantrix** [BEH17]. **Tanya** [Cou12]. **Tapp** [Hun17d]. **Tarry** [Kee11]. **taster** [Pas16]. **tasty** [CDF18]. **Taubes** [Gib13a]. **Tavares** [War10b]. **Taylor** [Rot10a, Far13]. **tbe** [For12, Gri13a]. **teach** [Lev14c, Orz12]. **teacher** [Ada10, Bau13]. **Teachers** [Neu16, Iva09, Lor11f]. **Teaching** [Jam13a, Ran14, SSJ19, dS13, Ada10, ADLM18, AR14, And17, Fie07, Sto14b, Zar10b, Tol17j, Tol19e, dV14]. **technique** [LN17]. **techniques** [Cve12, JS08, Mac10c, Shi14d, Yeo17b]. **Ted** [Tol18c]. **telescoping** [Tol19h]. **template** [Sch16a]. **temple** [FR08, Sil18c]. **ten** [BY08, Tol18d]. **Tensor** [Mac16c]. **Tent** [Gri10b]. **Tenth** [Hir11h]. **tents** [FMS10]. **Teresa** [Tol13]. **term** [VSR13]. **terms** [JL17, Jam18a, MS13, Mil11, Nur14b, Pur19, Sco18d]. **Terrell** [Mac11b]. **Terrence** [Zet19]. **Terry** [Zet19]. **tesseract** [Sud13]. **test** [Cha11, Gra13, Jam18c]. **Tests** [Has19]. **Tethering** [Mah18c]. **tetrahedra** [Haj18b]. **tetrahedral** [Edg16]. **tetrahedron** [Bea15b, Kuc12, Lin11, Nic12b]. **Tewkesbury** [Gri14d]. **Textbooks** [Mer15]. **Texts** [App14a, Cou10, Cou12, Gib13a]. **Thayer** [Rua12]. **Thébault's** [Vig19]. **Their** [Lev12e, Ban14b, Gib17a, Hun10b, McL19b, Mit12, Tub09]. **them** [Bur10b, Hop16]. **theme** [ASH19a, Gor19a, Lor10i, Lor12j]. **Theorem**

[Rib18, Shi11b, Spo18, Abb15, Bar17, Col19, CR14, Dac16, De 13, De 14a, Gri12g, Haj10, Haj15a, Haj17c, Haj19, HJ18a, Jos16a, Jos17d, Jos19b, KK11, Kar18, Kha13, Lam19, Luz16, Mac11a, MP11, Mer13, Mer17, Nur16, OS15, PG17, Rza10, Sco18d, Sil18b, Sil18c, Sub18a, Wil12, Lev13b, Zet18]. **theorems** [Bea19, Cam18, Cve12, GG13, HP10a, Shi14d]. **theoretic** [Kos14]. **theorist** [Hun18c, Von17]. **Theory** [HS13, Vol11, ABD11, And10a, And10b, AG14, Bea11, Bev14, Cou14, EGH⁺11, FGR14, For12, Gao08, Gao09, Hal12a, HWHBS08, Har10b, Jac14, Kra15, Mol12, MD10, Pla10b, Rua14a, Ser08, Shi10i, Shi14c, Shi14e, Sur10, Vil07, YN12, YN12, Hem19, Cou14, Hun14a, Jac19, Meg12, Sch13, Sch16b, Shi10e, Shi10f, Shi14e, Shi17b, Tol17i, Tol19b, War10c]. **ThePackage** [Mah19a]. **there** [Hop12, Mac13f]. **thesis** [AF12, Shi14b]. **things** [CBGS08, Gib19c, Eat12]. **think** [Hal16, Hou09, Lev10b]. **thinker** [Tol19f]. **Thinking** [MBS10, Hal17a, Gib18a, Ten12]. **third** [Orm13]. **Thirty** [Fre10b]. **Thomae** [Gri11f]. **Thomae-like** [Gri11f]. **Thomas** [Hun13c, Lev12c, War11b]. **Thoo** [Bay17b]. **Those** [dK09, Pas11b, Gri11e]. **thought** [Ram09]. **Thoughts** [Dol17f, Gri12c]. **Three** [Lor18i, LHS14, Aud14, Bea19, Fre10b, GV15, HJ18b, Kha13, MC09, Shi11a, Ste17c, Sut10, Des12, Lor19a, Hoa14b]. **three-way** [Aud14]. **Thwaites** [Dol15b]. **Tiankai** [Hun14a]. **tide** [Mah14]. **tier** [PF08]. **Tiina** [Gib12a]. **tiles** [Lor16d]. **tiling** [Gri16b, Ste16a]. **Tilings** [Sch16a, Gri17a]. **Tim** [Sto14b, Tin17]. **time** [Hol12b, Rop18]. **times** [KK11, Lev13b]. **Timothy** [Hun18b]. **TIMSS** [And12]. **Tina** [Hal10a]. **Titu** [Lea10]. **Tobies** [De 14c]. **today** [Gri14b, Mac12a]. **together** [Mah15b]. **Toke** [Dav15]. **told** [Ste12c]. **Toller** [Lor11i]. **Tom** [Hoa14a, Sut11, Tol14a]. **Tony** [Lev10a, Lev11d, Lev11f, Tol19b, War10a]. **too** [Hol12b]. **Toolbox** [HF04, FH05, Mah10b]. **tools** [App12, Bay14b]. **Topics** [Ser08, Hai17a, Rou16, Shi10i]. **topological** [Shi10g, Sut09]. **Topologist** [Pas14, vDD13]. **topology** [App18, Ric08b]. **Toss** [Joh12]. **tossing** [Gri12h]. **touching** [Sil18a]. **tournaments** [Gri10a]. **tower** [Bay10a, GG08a]. **town** [Ano14a]. **tradition** [BEU12, Tol14c]. **Traditional** [FR02, Lev11d]. **Train** [Grä11, War13b, War13c]. **trajectories** [Gro18]. **trans** [Gib10a]. **Transcending** [BEU12, Tol14c]. **transfers** [Rea10a]. **transformation** [Gri15a]. **transformations** [Fer16, Lor15f, Wil12]. **transition** [JM09a, JM09b, Lev12a]. **Translated** [Gib12a, Bay17d, Shi17a]. **translates** [Lor14g]. **translation** [Del19, Knu14b, Knu14a, Dav15]. **trapezia** [Jos18b]. **trapezium** [Jam12, Leu12a]. **treasures** [Ste09b, Lev11c]. **treasury** [Gri17d]. **Treks** [Fox17]. **trial** [Lev13f, SC13]. **trialogue** [Mac17]. **triangle** [Ano14r, BS15, Bro12a, Bro11, CF15, Cri17b, Dol15f, DZH14, Fos12c, Fox15, Fox16, Gor13, Gri08, Gri12d, GOD18a, GOD18b, Haj12, Haj17d, Hir11g, Job13b, Job18b, Jos19d, Kri18, Lev13j, Lor13a, Luk17, Luk18, Luk19, Luz16, Nic14a, O'L10, Ret18, Sco10b, Sco13a, Sco14b, Sco19b, Sha15, Tod15, li17, Gau12a, Bay10b]. **triangle-folding** [Hir11g]. **Triangles** [CF14, Dol15f, Nic14b, Shi11c, Bau13, Dol15a, Dol16b, Dol19a, Dow15,

Gri15d, Haj18b, Hir11a, HE19, Job18a, Leu12b, Lor12c, MMYA10, Nic17, Oai15, PL12, Rea14, Rea15, Rea16, Sci19, Shi12d, Lor15b, Lev14p].
triangular [Bre15, Cag19, Edg16, Eul15, Lor16g, Shi12a, Sub19].
Tribulations [Ran14]. **trick** [Shi12a]. **tricks** [Cra09, Hal10b]. **tricorn** [Mac11a]. **Trigonometric** [Ste17d, GS16, JJ13a, Luc10, Luc13, Gau19, Bay17d]. **trigonometry** [CR16, Gri11h, Van09, Van13, You11a, Tal13, Rua11, Rua14b, Lev17i].
trinomial [Gri16b]. **triple** [Ban16]. **triples** [BD12, HJ19, Hva11, Kos16, MvdB12]. **triplicate** [Bra11a]. **Tripos** [Vil15].
trisecting [Osl16]. **trisection** [Kos16]. **Triumphs** [Ran14]. **trivariate** [Gri17b]. **truncated** [Kuc12]. **truncation** [vW19]. **Trust** [Bay10b, Fox15, Gri18d, Hun13b, Lev17e, Mac12b, Mor19, Sto10a, Tsa18, Zar10a]. **truth** [Hoa12, Nie10, Sti10]. **Tschirnhaus** [Kul16]. **Tubbs** [Hun10b, Lev15a].
Tuganbaev [Hun15]. **Tullio** [Eat13]. **Tunc** [Bay17a]. **Tung** [Mac14d].
Turing [Shi14b, AF12]. **turning** [Cae15]. **Tutte** [Ano17b]. **twentieth** [B⁺11, GG12c, Hoa15b, KP14, Tub14]. **twentieth-century** [Tub14]. **twenty** [Lev11e]. **twenty-five** [Lev11e]. **twin** [MM13b, Oku13b, Cha11]. **twinned** [Bra12]. **Two** [Gro18, Lor13h, Lor18j, PS14, PF10, Bau13, Ber18, Bra12, BT17, Dol12b, FS10, GV17, Jam19a, Koo11, Leu12a, Lor16g, Mah18a, Mah13b, Nic14b, Shi13d, Ste17c, Ste18a, Sub15b, Jam10a, Job11b, Loo11, MM13c, Pat13a].
type [ES10, Jam15c, Lor13a].

U [Mac14c]. **U\$** [Cou12]. **ubiquitous** [Die19]. **UK** [Mor19, Tol10, Tsa18, SA16]. **UKMT** [Rou14, Lor11c]. **Ulrich** [Gib11a, Yeo18c]. **umbrellas** [FMS10]. **Unbounded** [Vol11, Jac14].
uncertain [Hud10b, Wai09]. **uncertainty** [Wai09]. **unchanged** [Wil14].
undergraduate [Hou09, Yeo18a, dV14, Yeo18c]. **undergraduates** [Hun17d].
understand [Wai09]. **Underwood** [Bay10c]. **Unexpected** [Wap12, ASHH18, Lor17a, Sco14d, Sco19c, SLMRR10, Gib14c]. **unfinished** [Dev08, Lev10f]. **Ungar** [Tol14c]. **unified** [Gau19]. **unique** [Ste12c].
Uniqueness [Mas14]. **unit** [Gri19]. **unit-distance** [Gri19]. **United** [Bay10b, Fox15, Gri18d, Hun13b, Mac12b, Sto10a, Zar10a]. **units** [Yan10].
universe [FW11, Ste11a, Ved10, War11a, YN10, YN12, Zet13]. **University** [And10a, And10b, And11, And13c, And13a, And13b, And13d, App14a, Ban13, Ban14b, Bay10a, Bay11b, Bay14b, Bay14c, Bay15b, Bay15a, Bay19b, Bay19a, Bev13, Bev17, Cam18, Cou10, Cou11, Cou12, Cou17b, Cou18, Cou19, Cri13, Cri15b, Cri17a, Dav10, Dav15, Dav17, De 11b, De 14b, De 17, Dol15b, For11, Fos14b, Fre10a, Fre15, Gib11b, Gib13a, Gib17b, Gib18b, Gol10, Gri11d, Gri11c, Gri13f, Gri14b, Gri14c, Had19, Hai13, Hal10c, Hal16, Haw11, Haw18b, Haw18a, Hoa10, Hoa14b, Hoa15a, Hoa15b, Hoa17a, Hop18b, Hop19, Hud10b, Hud13a, Hud13b, Hun10b, Hun10a, Hun12a, Hun13d, Hun15, Hun17e, Hun18b, Hun18c, Hun19b, Hun17f, Kee18, Lee17, Lev10c, Lev11d, Lev12a, Lev12d, Lev13e, Lev13a, Lev13d, Lev14i, Lev14n, Lev14o, Lev14l, Lev14b, Lev14m, Lev14a].

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[Lev14g, Lev15a, Lev17a, Lev17b, Lev18d, Lor15g, Lor17e, Lor18f, Mac10c, Mac11b, Mac14b, Mac15a, Mac15b, Mac15c, Mac19, Mac16a, Mac16b, Mac16c, McB18, MNS10, Pas18, Rot10c, Rot10d, Rot10b, Row19, Rua11, Rua14b, Rua17, Sch13, Shi10e, Shi10f, Shi10g, Shi10h, Shi14b, Shi15b, Shi17b, Shi18b, Shi18a, Sto14a, Sto17b, Sto17a, Sut11, Tin17, Tol14b, Tol15b, Tol15c, Tol15a, Tol15d, Tol16a, Tol16d, Tol16c, Tol16b, Tol16e, Tol17d, Tol17g, Tol17f, Tol17i, Tol17k, Tol17j, Tol18a, Tol18d, Tol18f, Tol19d, Tol19g, Tol19c, Tol19e, Von17, War10b, War11a, War11b, Wil10, Yeo17d, Yeo18b, Zet18, Gib11c]. **unknown** [Hoa15b, KP14]. **unlikely** [Bar10]. **unlocking** [Gri14f, Ste11b]. **unravelers** [DLP08, Gib10a]. **Unravelling** [Bea18b, FW11]. **Unsolved** [Tol18f]. **unsung** [Hoa10, Pas08]. **until** [Gri15f]. **unusual** [Lor18k]. **updated** [Von17, Zet18]. **Upper** [Sch16c]. **US\$27.95** [Shi17b]. **USA** [Kro18]. **USD** [De 14b]. **use** [Dob11, Hun17f, SLMRR10]. **used** [Lev13f, SC13]. **user** [Gib11a]. **Using** [Fer16, Jam16b, Lor17h, Ran18, Ano13m, Ayd18, De 14b, JH12, Kac17, Lev09, Lor12b, Lor14i, Luc10, Luc13, Mur12, Mur19, Shi12b, Ste17e, SSJ19, SB19, Szy17, Szy19, Tol15e, Tre17, Wil12, Far13].

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