

New good abc examples

Tim Dokchitser

Dept. of Math. Sciences, University of Durham, UK

10th Septembre 2003

$$a + b = c, \quad \gcd(a, b) = 1 \quad \alpha = \frac{\log(c)}{\log(\text{rad}(abc))}.$$

a	b	c	$\log_{10}(c)$	α
$13^{10} 37^2$	$3^7 19^5 71^4 223$	$2^{26} 5^{12} 1873$	19.5	1.50943262
$19^8 43^4 149^2$	$2^{15} 5^{23} 101$	$3^{13} 13 \cdot 29^2 37^6 911$	22.6	1.44280331
$3 \cdot 5^6 7^8 53$	167^9	$2 \cdot 11^6 193^4 20551$	20.0	1.43823826
$2^{26} 11^4 7639$	$5^6 23^{11}$	$3^{18} 47^4 7879$	19.2	1.43813867
$7^8 13 \cdot 89^3$	$3^{13} 5^3 11^4 1499$	$2 \cdot 19^{12}$	15.6	1.43785988
$17^4 19^6$	$41^{10} 1559$	$2^{12} 3^{15} 5 \cdot 29 \cdot 1567^2$	19.3	1.43654400
$3^4 7^2 41$	$2^{25} 227^7$	$5^9 11^8 2489197589$	24.0	1.43575084
$3^{17} 809$	$2^{27} 11^9$	$5 \cdot 7^4 13^5 59 \cdot 1097^2$	17.5	1.43485873
$11 \cdot 103^8$	$2^{45} 3^7 29 \cdot 37 \cdot 1997$	$5^{11} 7^{10} 79 \cdot 389^2$	23.2	1.43360120
$7^{11} 19$	$5^{12} 1019 \cdot 7151^2$	$2^{28} 3^{12} 11^3 67$	19.1	1.43309388
$2^{17} 13^3$	$7^3 11^7 43^2 5801$	$3^{17} 17^6 23$	16.9	1.43234742
$7^2 23^5$	$3^8 11^{12} 4703$	$2 \cdot 5^2 13^2 19^3 29^6 53^2$	20.0	1.42991591
$2^{20} 79 \cdot 97$	$5^3 7^6 11^{10}$	$3^4 13^7 8663^2$	17.6	1.42942802
29^4	$2^{14} 3^3 31 \cdot 47^2 199^3$	$7^{12} 4153^2$	17.4	1.42836105
$2^{27} 809$	$5^7 7^6 13^5$	$3^{23} 36251$	15.5	1.42460741
$2^{13} 3^{18} 2069$	$13^3 29^7 271^3$	$5^{14} 23^3 3187^2$	20.9	1.42340611
$31^7 113 \cdot 491^2$	$5^{13} 11 \cdot 13 \cdot 19^8$	$2 \cdot 3^6 7^{18} 1249$	21.5	1.42308625
$3^4 23^6 1013^2$	$2^{47} 5^3 19^2$	$7 \cdot 131^7 1373$	18.8	1.42201537
$3 \cdot 5 \cdot 13^6$	$2^7 7^5 53^6 2287$	$11^3 37^7 929^2$	20.0	1.42137859
$233^4 439$	$2^{15} 3^{19}$	$5^8 17^5 71$	13.6	1.42081322
$2^{13} 71^2 337^3$	$7^{13} 1117^2$	$3^{21} 13^3 73^2$	17.1	1.42075105
$17^2 47^5 73$	$2^{31} 5^9$	$3 \cdot 13^7 4723^2$	15.6	1.41627640
$2^7 5^4 7^{22}$	$19^4 37 \cdot 47^4 53^6$	$3^{14} 11 \cdot 13^9 191 \cdot 7829$	23.9	1.41582933
$5^{20} 4021$	$2^{40} 13 \cdot 17^3 6763$	$3^6 7^7 11^3 29^6$	20.7	1.41575870
$3^{22} 9787^2$	$5^{10} 11 \cdot 29^{10} 109$	$2^{37} 89^3 167^2 1823$	24.7	1.41570162
$71^8 233^3$	$2^5 5^{18} 7^3 17^3 981439$	$3^{38} 13^4 5233$	26.3	1.41457078
$29^4 2213^2$	$3 \cdot 13^2 23^{12} 89 \cdot 14717$	$2^9 5^{16} 11^9 79$	25.2	1.41234761
$5^4 17 \cdot 349^3$	$7^{17} 109$	$2^{35} 3^5 3037$	16.4	1.41227598
$3^{11} 7^2 37 \cdot 47$	$2^8 17^3 101^2 191^4$	$5^2 353^7$	19.2	1.41143590
$2^{29} 13$	$5^{11} 269^3$	$3^5 7^2 17^6 3307$	15.0	1.41090947
$5^4 53^2 59^4 101$	$2^4 11 \cdot 23^{15}$	$3^{14} 7^{12} 463 \cdot 1531$	22.7	1.41032306
$2^{11} 3^4 101^4 29221$	13^{19}	$5^{15} 17 \cdot 53093^2$	21.2	1.40944818
7^4	$3^{21} 11^2 13^4 138493$	$2^{26} 5^7 383 \cdot 1579^2$	21.7	1.40900897
$11^3 31^5 101 \cdot 479$	107^8	$2^{31} 3^4 5^6 7$	16.3	1.40714951
$3^5 5^{16} 19^3$	$7^5 23^2 233^4 1321$	$2^{48} 43^2 67$	19.5	1.40487025
$5^7 23^7 1493$	$31^8 3907^2$	$2^{52} 3^2 331$	19.1	1.40479669
$2^2 3^4 163^3 1006151$	43^{13}	$11^9 29^4 101^3$	21.2	1.40308397
$2^{11} 3^{17} 13^2 19^2$	$29 \cdot 41^2 83^8$	$5^4 47^2 53 \cdot 107^6$	20.0	1.40244119
$3^6 7^4 43 \cdot 16421$	$5^{12} 439^6$	$2^{59} 41 \cdot 73939$	24.2	1.40168452
$7^9 13^4$	$2^{10} 23^3 173^4$	$3^{12} 5 \cdot 11^6 2371$	16.0	1.40127027
17^4	$2 \cdot 7^{12} 29^3 743$	$3^9 5^6 13^5 23 \cdot 191$	17.7	1.40004159