

Calculation of  $\text{powermod}(29,405,1347) = 233$

| $b$                  | $c$                   | $k$ |
|----------------------|-----------------------|-----|
| $a^0 \equiv 1$       | $a^1 \equiv 29$       | 405 |
| $a^1 \equiv 29$      | $a^2 \equiv 841$      | 202 |
| $a^1 \equiv 29$      | $a^4 \equiv 106$      | 101 |
| $a^5 \equiv 380$     | $a^8 \equiv 460$      | 50  |
| $a^5 \equiv 380$     | $a^{16} \equiv 121$   | 25  |
| $a^{21} \equiv 182$  | $a^{32} \equiv 1171$  | 12  |
| $a^{21} \equiv 182$  | $a^{64} \equiv 1342$  | 6   |
| $a^{21} \equiv 182$  | $a^{128} \equiv 25$   | 3   |
| $a^{149} \equiv 509$ | $a^{256} \equiv 625$  | 1   |
| $a^{405} \equiv 233$ | $a^{512} \equiv 1342$ | 0   |