

Question #9394

Solve: $12^{2x} = 1000$

Solution

$$12^{2x} = 1000;$$

$$\lg 12^{2x} = \lg 1000;$$

$$2x \cdot \lg 12 = 3;$$

$$x = \frac{3}{2 \cdot \lg 12}.$$

Answer: $x = \frac{3}{2 \cdot \lg 12}.$