Name

Exponential Function Solution Equation - Growth (Continuous) - Equation to Time

1 Rearrange this equation to solve for the time given this model of a continuous exponential growth of social media post views?

$$1,372 = 800 \cdot e^{(0.06 \cdot t)}$$

A $t = +\frac{\ln \frac{1372}{800}}{0.06}$

B $t = -\frac{\ln 1372 \cdot 800}{0.06}$

C $t = +\frac{0.06}{\ln \frac{1372}{800}}$

2 Rearrange this equation to solve for the time given this model of a continuous growth of a bacteria population?

$$525 = 300 \cdot e^{(0.08 \cdot t)}$$

A $t = -\frac{\ln 525 \cdot 300}{0.08}$

B $t = +\frac{\ln \frac{525}{300}}{0.08}$

C $t = +\frac{0.08}{\ln \frac{525}{300}}$

3 Rearrange this equation to solve for the time given this model of a continuous exponential growth of social media post views?

$$1,369 = 900 \cdot e^{(0.07 \cdot t)}$$

A $t = -\frac{\ln 1369 \cdot 900}{0.07}$

B $t = +\frac{0.07}{\ln \frac{1369}{900}}$

C $t = +\frac{\ln \frac{1369}{900}}{0.07}$

4 Rearrange this equation to solve for the time given this model of a continuous growth of a rabbit population?

$$598 = 500 \cdot e^{(0.06 \cdot t)}$$

A $t = +\frac{\ln \frac{598}{500}}{0.06}$

B $t = -\frac{\ln 598 \cdot 500}{0.06}$

5 Rearrange this equation to solve for the time given this model of a continuous exponential growth of social media post views?

$$1,144 = 900 \cdot e^{(0.08 \cdot t)}$$

A $t = +\frac{\ln \frac{1144}{900}}{0.08}$

B $t = -\frac{\ln 1144 \cdot 900}{0.08}$

C $t = +\frac{0.08}{\ln \frac{1144}{900}}$

6 Rearrange this equation to solve for the time given this model of a growth of debt on a credit card with continuous compounding?

$$1,016 = 800 \cdot e^{(0.04 \cdot t)}$$

A $t = +\frac{\ln \frac{1016}{800}}{0.04}$

B $t = +\frac{0.04}{\ln \frac{1016}{800}}$

C $t = -\frac{\ln 1016 \cdot 800}{0.04}$

7 Rearrange this equation to solve for the time given this model of a continuously compounding growth of money in a savings account?

$$1,035 = 900 \cdot e^{(0.02 \cdot t)}$$

A $t = -\frac{\ln 1035 \cdot 900}{0.02}$

B $t = +\frac{\ln \frac{1035}{900}}{0.02}$

8 Rearrange this equation to solve for the time given this model of a continuous exponential growth of social media post views?

$$1,232 = 600 \cdot e^{(0.09 \cdot t)}$$

A $t = -\frac{\ln 1232 \cdot 600}{0.09}$

B $t = +\frac{\ln \frac{1232}{600}}{0.09}$