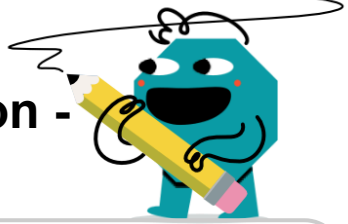
Name

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



1 Rearrange this equation to solve for the rate given this model of a continuous growth of an insect population?

$$938 = 500 \cdot e^{(r \cdot 9)}$$

A $r = +\frac{\ln \frac{938}{500}}{9}$

B $r = +\frac{e^{\frac{938}{500}}}{9}$

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

$$1,232 = 600 \cdot e^{(r \cdot 9)}$$

A $r = +\frac{\ln \frac{1232}{600}}{9}$

B $r = +\frac{\ln \frac{600}{1232}}{9}$

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

$$1,079 = 800 \cdot e^{(r \cdot 6)}$$

A $r = +\frac{e^{\frac{1079}{800}}}{6}$

B $r = +\frac{\ln \frac{1079}{800}}{6}$

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

$$425 = 300 \cdot e^{(r \cdot 7)}$$

A $r = +\frac{e^{\frac{425}{300}}}{7}$

B $r = +\frac{\ln \frac{425}{300}}{7}$

C $r = +\frac{\ln \frac{300}{425}}{7}$

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

$$1,131 = 700 \cdot e^{(r \cdot 6)}$$

A $r = +\frac{e^{\frac{1131}{700}}}{6}$

B $r = +\frac{\ln \frac{700}{1131}}{6}$

C $r = +\frac{\ln \frac{1131}{700}}{6}$

6 Rearrange this equation to solve for the rate given this model of a continuous growth of an insect population?

$$1,110 = 900 \cdot e^{(r \cdot 7)}$$

A $r = +\frac{\ln \frac{1110}{900}}{7}$

B $r = +\frac{e^{\frac{1110}{900}}}{7}$

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

$$396 = 300 \cdot e^{(r \cdot 4)}$$

A $r = +\frac{\ln \frac{396}{300}}{4}$

B $r = +\frac{e^{\frac{396}{300}}}{4}$

8 Rearrange this equation to solve for the rate given this model of a continuous growth of an insect population?

$$567 = 400 \cdot e^{(r \cdot 7)}$$

A $r = +\frac{\ln \frac{567}{400}}{7}$

B $r = +\frac{e^{\frac{567}{400}}}{7}$

C $r = +\frac{\ln \frac{400}{567}}{7}$