

mobius

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



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

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

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

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

$$=+rac{e^{rac{938}{500}}}{9}igg|^{
m A}$$

$$r=+rac{\mathsf{ln}\,rac{1232}{600}}{\mathsf{9}}$$

$$r=+rac{\mathsf{ln}\,rac{600}{1232}}{\mathsf{9}}$$

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

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

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

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

$$r=+rac{e^{rac{1079}{800}}}{6}$$

$$r=+rac{\mathsf{ln}\,rac{1079}{800}}{\mathsf{6}}$$

$$\left| egin{aligned} r = +rac{e^{rac{425}{300}}}{7}
ight|^{ extsf{B}} r = +rac{\lnrac{425}{300}}{7}
ight|^{ extsf{C}} = +rac{\lnrac{300}{425}}{7}
ight|^{ extsf{C}}$$

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

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

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

$$\left| r = + rac{e^{rac{1131}{700}}}{6}
ight|^{ extsf{B}} r = + rac{\lnrac{700}{1131}}{6}
ight|^{ extsf{C}} r = + rac{\lnrac{1131}{700}}{6}$$

$$r=+rac{\mathsf{In}\,rac{1110}{900}}{\mathsf{7}}\,\,
brace^{\mathsf{B}}$$

$$r=+rac{e^{rac{1110}{900}}}{7}$$

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 $r = + rac{\ln rac{396}{300}}{4} r = + rac{e^{rac{396}{300}}}{4}$

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

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

$$r = +rac{\lnrac{396}{300}}{4}r = +rac{e^{rac{396}{300}}}{4} r = +rac{e^{rac{396}{300}}}{7} r = +rac{\lnrac{567}{400}}{7} r = +rac{e^{rac{567}{400}}}{7} r = +rac{\lnrac{400}{567}}{7} r = +rac{\lnrac{400}{567}}{1} r = +rac{\lnrac{400}{5}}{1} r = +rac{\lnrac{400}{5}}{1} r = +rac{\ln\frac{400}{5}}{1} r = +$$

7

8