

mobius

Exponential Function Solving - Growth (Continuous) **Equation to Rate**

2



Solve for the rate given this model of a continuous growth of a rabbit population?

$$654 = 500 \cdot e^{(r \cdot 9)}$$

Solve for the rate given this model of a continuously compounding growth of a share price?

$$866 = 800 \cdot e^{(r \cdot 2)}$$

Α	$3+r=+rac{e^{rac{P}{P_0}}}{t}$	В	$r=+rac{\lnrac{P}{P_0}}{t}$	Α	$7+r=+rac{\lnrac{S_0}{S}}{t}$	В	$1+r=+rac{e^{rac{ec{S_0}}}{ec{S_0}}}{t}$
С	$3+r=+rac{\lnrac{P_0}{P}}{t}$			С	$7+r=+rac{e^{rac{S}{S_0}}}{t}$	D	$r=+rac{\lnrac{S}{S_0}}{t}$

3 Solve for the rate given this model of a continuous exponential growth of social media post views?

$$254 = 200 \cdot e^{(r \cdot 8)}$$

Solve for the rate given this model of a continuous exponential growth of social media post views?

1, 144
$$= 900 \cdot e^{(r \cdot 8)}$$

Α	$7+r=+rac{\lnrac{V_0}{V}}{t}$	В	$4+r=+rac{\lnrac{V_0}{V}}{t}$	Α	$1+r=+rac{\lnrac{V_0}{V}}{t}$	В	$1+r=+rac{e^{rac{V}{V_0}}}{t}$
С	$8+r=+rac{e^{rac{V_{0}}{V_{0}}}}{t}$	D	$r=+rac{\lnrac{V}{V_0}}{t}$	С	$8+r=+rac{e^{rac{V}{V_0}}}{t}$	D	$r=+rac{\lnrac{V}{V_0}}{t}$

5 Solve for the rate given this model of a continuous growth of a rabbit population?

Solve for the rate given this model of a continuous growth of a bacteria population?

1, 014
$$= 900 \cdot e^{(r \cdot 6)}$$

1, 044 = 700
$$\cdot e^{(r \cdot 8)}$$

Α	$7+r=+rac{\lnrac{P_0}{P}}{t}$	В	$r=+rac{\lnrac{P}{P_0}}{t}$	Α	$9+r=+rac{e^{rac{P}{P_0}}}{t}$	В	$1+r=+rac{\lnrac{P_0}{P}}{t}$
С	$5+r=+rac{lnrac{P_0}{P}}{t}$	D	$1+r=+\frac{e^{\frac{P}{P_0}}}{t}$	С	$2+r=+rac{e^{rac{P}{P_0}}}{t}$	D	$r=+rac{\lnrac{P}{P_0}}{t}$

7 Solve for the rate given this model of a continuous exponential growth of social media post views?

Solve for the rate given this model of a continuous growth of a rabbit population?

$$858 = 500 \cdot e^{(r \cdot 9)}$$

1, 254
$$=$$
 800 \cdot $e^{(r\cdot 9)}$

Α	$9+r=+rac{\lnrac{V_0}{V}}{t}$	В	$7+r=+rac{e^{rac{V}{V_0}}}{t}$	A P	В	C	D
С	$3+r=+rac{\lnrac{V_0}{V}}{t}$	D	$r=+rac{lnrac{V}{V_0}}{t}$	$r=+rac{\lnrac{r}{P_0}}{r}$	$5+r=+rac{e^{rac{\hat{r}}{P_0}}}{r}$	$6+r=+rac{e^{rac{\dot{r}_0}{P_0}}}{r}$	$1+r=+rac{e^{rac{\dot{r}}{P_0}}}{r}$
				t	t	t	t