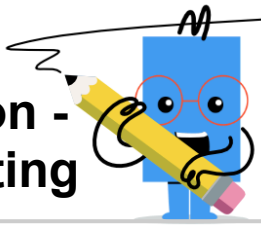
Name

Exponential Function Solution Equation - Growth (Continuous) Equation to Starting Value



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

$$1,438 = V_0 \cdot e^{(0.08 \cdot 9)}$$

A	$V_0 = \frac{1438}{e^{(0.08 \cdot 9)}}$	B	$V_0 = \frac{e^{(0.08 \cdot 9)}}{1438}$
C	$V_0 = \frac{1438}{e^{(\frac{0.08}{9})}}$		

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

$$854 = D_0 \cdot e^{(0.05 \cdot 4)}$$

A	$D_0 = \frac{854}{e^{(\frac{0.05}{4})}}$	B	$D_0 = \frac{854}{e^{(0.05 \cdot 4)}}$
C	$D_0 = \frac{e^{(0.05 \cdot 4)}}{854}$		

3 Rearrange this equation to solve for the starting downloads given this model of a continuously compounding growth of app downloads?

$$1,232 = A_0 \cdot e^{(0.09 \cdot 8)}$$

A	$A_0 = \frac{1232}{e^{(0.09 \cdot 8)}}$	B	$A_0 = \frac{e^{(0.09 \cdot 8)}}{1232}$
C	$A_0 = \frac{1232}{e^{(\frac{0.09}{8})}}$		

4 Rearrange this equation to solve for the starting downloads given this model of a continuously compounding growth of app downloads?

$$530 = A_0 \cdot e^{(0.03 \cdot 2)}$$

A	$A_0 = \frac{530}{e^{(\frac{0.03}{2})}}$	B	$A_0 = \frac{e^{(0.03 \cdot 2)}}{530}$
C	$A_0 = \frac{530}{e^{(0.03 \cdot 2)}}$		

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

$$676 = P_0 \cdot e^{(0.04 \cdot 3)}$$

A	$P_0 = \frac{e^{(0.04 \cdot 3)}}{676}$	B	$P_0 = \frac{676}{e^{(0.04 \cdot 3)}}$
C	$P_0 = \frac{676}{e^{(\frac{0.04}{3})}}$		

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

$$442 = D_0 \cdot e^{(0.02 \cdot 5)}$$

A	$D_0 = \frac{442}{e^{(0.02 \cdot 5)}}$	B	$D_0 = \frac{e^{(0.02 \cdot 5)}}{442}$
C	$D_0 = \frac{442}{e^{(\frac{0.02}{5})}}$		

7 Rearrange this equation to solve for the starting downloads given this model of a continuously compounding growth of app downloads?

$$627 = A_0 \cdot e^{(0.09 \cdot 5)}$$

A	$A_0 = \frac{627}{e^{(0.09 \cdot 5)}}$	B	$A_0 = \frac{e^{(0.09 \cdot 5)}}{627}$
C	$A_0 = \frac{627}{e^{(\frac{0.09}{5})}}$		

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

$$352 = D_0 \cdot e^{(0.08 \cdot 2)}$$

A	$D_0 = \frac{352}{e^{(0.08 \cdot 2)}}$	B	$D_0 = \frac{e^{(0.08 \cdot 2)}}{352}$
C	$D_0 = \frac{352}{e^{(\frac{0.08}{2})}}$		