Name

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

1

A social media post starts with a certain number of views. Its view count grows continually by 2% each month.After 4 months it has 758 views.

Rearrange the exponential equation to solve for for the starting views given this scenario?

A $V_0 = \frac{758}{e^{(\frac{0.02}{4})}}$	B $V_0 = \frac{758}{e^{(0.02 \cdot 4)}}$
C $V_0 = \frac{e^{(0.02 \cdot 4)}}{758}$	

2

A social media post starts with a certain number of views. Its view count grows continually by 9% each day.After 5 days it has 470 views.

Rearrange the exponential equation to solve for for the starting views given this scenario?

A $V_0 = \frac{470}{e^{(0.09 \cdot 5)}}$	B $V_0 = \frac{e^{(0.09 \cdot 5)}}{470}$
C $V_0 = \frac{470}{e^{(\frac{0.09}{5})}}$	

3

A savings account starts with a certain amount of cash. It grows continuously at 5% interest per month. After 7 months it has $425.

Rearrange the exponential equation to solve for for the starting cash given this scenario?

A $P_0 = \frac{425}{e^{(0.05 \cdot 7)}}$	B $P_0 = \frac{e^{(0.05 \cdot 7)}}{425}$
C $P_0 = \frac{425}{e^{(\frac{0.05}{7})}}$	

4

An app starts with a certain number of downloads. Its download count grows continually by 6% each year.After 9 years it has 514 downloads.

Rearrange the exponential equation to solve for for the starting downloads given this scenario?

A $A_0 = \frac{e^{(0.06 \cdot 9)}}{514}$	B $A_0 = \frac{514}{e^{(\frac{0.06}{9})}}$
C $A_0 = \frac{514}{e^{(0.06 \cdot 9)}}$	

5

A company's share price starts at a certain value. It grows continuously at 9% growth per month. After 7 months it has a share price of $563.

Rearrange the exponential equation to solve for for the starting price given this scenario?

A $S_0 = \frac{563}{e^{(\frac{0.09}{7})}}$	B $S_0 = \frac{563}{e^{(0.09 \cdot 7)}}$
C $S_0 = \frac{e^{(0.09 \cdot 7)}}{563}$	

6

A rabbit population starts at a certain size. It grows continuously at 9% growth per quarter. After 8 quarters it has increased to a population of 1,438 rabbits.

Rearrange the exponential equation to solve for for the starting population given this scenario?

A $P_0 = \frac{1438}{e^{(\frac{0.09}{8})}}$	B $P_0 = \frac{e^{(0.09 \cdot 8)}}{1438}$
C $P_0 = \frac{1438}{e^{(0.09 \cdot 8)}}$	

7

A savings account starts with a certain amount of cash. It grows continuously at 7% interest per year. After 2 years it has $1,035.

Rearrange the exponential equation to solve for for the starting cash given this scenario?

A $P_0 = \frac{1035}{e^{(\frac{0.07}{2})}}$	B $P_0 = \frac{e^{(0.07 \cdot 2)}}{1035}$
C $P_0 = \frac{1035}{e^{(0.07 \cdot 2)}}$	

8

A social media post starts with a certain number of views. Its view count grows continually by 6% each week.After 2 weeks it has 789 views.

Rearrange the exponential equation to solve for for the starting views given this scenario?

A $V_0 = \frac{789}{e^{(0.06 \cdot 2)}}$	B $V_0 = \frac{e^{(0.06 \cdot 2)}}{789}$