Name

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

1 Rearrange this equation to solve for the starting concentration given this model of a continuous reduction of a toxin concentration?

$$266 = C_0 \cdot e^{(-0.06 \cdot 2)}$$

A	$C_0 = \frac{266}{e^{(-0.06 \cdot 2)}}$	B	$C_0 = \frac{e^{(-0.06 \cdot 2)}}{266}$
C	$C_0 = \frac{266}{e^{(\frac{-0.06}{2})}}$		

2 Rearrange this equation to solve for the starting population given this model of a a continuously declining bacteria population?

$$591 = P_0 \cdot e^{(-0.07 \cdot 6)}$$

A	$P_0 = \frac{591}{e^{(\frac{-0.07}{6})}}$	B	$P_0 = \frac{591}{e^{(-0.07 \cdot 6)}}$
C	$P_0 = \frac{e^{(-0.07 \cdot 6)}}{591}$		

3 Rearrange this equation to solve for the starting concentration given this model of a continuous decay of a radioactive material?

$$798 = R_0 \cdot e^{(-0.03 \cdot 4)}$$

A	$R_0 = \frac{798}{e^{(-0.03 \cdot 4)}}$	B	$R_0 = \frac{e^{(-0.03 \cdot 4)}}{798}$
C	$R_0 = \frac{798}{e^{(\frac{-0.03}{4})}}$		

4 Rearrange this equation to solve for the starting concentration given this model of a continuous decay of a radioactive material?

$$328 = R_0 \cdot e^{(-0.07 \cdot 6)}$$

A	$R_0 = \frac{328}{e^{(\frac{-0.07}{6})}}$	B	$R_0 = \frac{328}{e^{(-0.07 \cdot 6)}}$
C	$R_0 = \frac{e^{(-0.07 \cdot 6)}}{328}$		

5 Rearrange this equation to solve for the starting concentration given this model of a continuous decay of a radioactive material?

$$309 = R_0 \cdot e^{(-0.06 \cdot 8)}$$

A	$R_0 = \frac{309}{e^{(\frac{-0.06}{8})}}$	B	$R_0 = \frac{e^{(-0.06 \cdot 8)}}{309}$
C	$R_0 = \frac{309}{e^{(-0.06 \cdot 8)}}$		

6 Rearrange this equation to solve for the starting concentration given this model of a continuous decay of a radioactive material?

$$709 = R_0 \cdot e^{(-0.06 \cdot 2)}$$

A	$R_0 = \frac{709}{e^{(-0.06 \cdot 2)}}$	B	$R_0 = \frac{709}{e^{(\frac{-0.06}{2})}}$
C	$R_0 = \frac{e^{(-0.06 \cdot 2)}}{709}$		

7 Rearrange this equation to solve for the starting population given this model of a continuous decline of a bird population?

$$521 = P_0 \cdot e^{(-0.07 \cdot 2)}$$

A	$P_0 = \frac{e^{(-0.07 \cdot 2)}}{521}$	B	$P_0 = \frac{521}{e^{(-0.07 \cdot 2)}}$
C	$P_0 = \frac{521}{e^{(\frac{-0.07}{2})}}$		

8 Rearrange this equation to solve for the starting population given this model of a continuous decline of a bird population?

$$157 = P_0 \cdot e^{(-0.06 \cdot 4)}$$

A	$P_0 = \frac{157}{e^{(-0.06 \cdot 4)}}$	B	$P_0 = \frac{157}{e^{(\frac{-0.06}{4})}}$