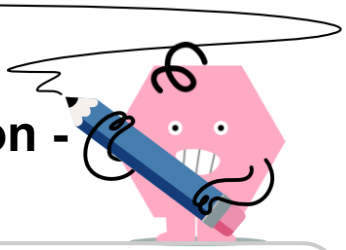
Name

Exponential Function Solution Equation - Growth (Discrete, Mis-matched Time Units) Equation to Rate



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

$$259 = 200 \cdot (1 + r)^{(3 \cdot 3)}$$

A	$r = -(\frac{259}{200})^{\frac{1}{3}} + 1$	B	$r = (\frac{259}{200})^{\frac{1}{3 \cdot 3}} - 1$
C	$r = (\frac{259}{200})^{\frac{3 \cdot 3}{2}} - 1$		

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

$$2,872 = 700 \cdot (1 + r)^{(\frac{36}{12})}$$

A	$r = (\frac{2872}{700})^{\frac{1}{\frac{36}{12}}} - 1$	B	$r = -(\frac{2872}{700})^{\frac{1}{36 \cdot 12}} + 1$

3 Rearrange this equation to solve for the rate given this model of a growth in credit card debt with quarterly interest?

$$717 = 600 \cdot (1 + r)^{(\frac{9}{3})}$$

A	$r = -(\frac{717}{600})^{\frac{1}{9 \cdot 3}} + 1$	B	$r = (\frac{717}{600})^{\frac{9}{3}} - 1$
C	$r = (\frac{717}{600})^{\frac{1}{9}} - 1$		

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

$$3,155 = 300 \cdot (1 + r)^{(\frac{60}{12})}$$

A	$r = -(\frac{3155}{300})^{\frac{1}{60 \cdot 12}} + 1$	B	$r = (\frac{3155}{300})^{\frac{\frac{60}{12}}{2}} - 1$
C	$r = (\frac{3155}{300})^{\frac{1}{\frac{60}{12}}} - 1$		

5 Rearrange this equation to solve for the rate given this model of a growth in credit card debt with quarterly interest?

$$599 = 300 \cdot (1 + r)^{(9 \cdot 4)}$$

A	$r = (\frac{599}{300})^{\frac{9 \cdot 4}{2}} - 1$	B	$r = (\frac{599}{300})^{\frac{1}{9 \cdot 4}} - 1$
C	$r = -(\frac{599}{300})^{\frac{1}{\frac{9}{4}}} + 1$		

6 Rearrange this equation to solve for the rate given this model of a growth in credit card debt with yearly interest?

$$359 = 200 \cdot (1 + r)^{(\frac{12}{4})}$$

A	$r = (\frac{359}{200})^{\frac{\frac{12}{4}}{2}} - 1$	B	$r = -(\frac{359}{200})^{\frac{1}{12 \cdot 4}} + 1$
C	$r = (\frac{359}{200})^{\frac{1}{\frac{12}{4}}} - 1$		

7 Rearrange this equation to solve for the rate given this model of a growth in credit card debt with monthly interest?

$$1,129 = 800 \cdot (1 + r)^{(4 \cdot 12)}$$

A	$r = (\frac{1129}{800})^{\frac{1}{4 \cdot 12}} - 1$	B	$r = (\frac{1129}{800})^{\frac{4 \cdot 12}{2}} - 1$
C	$r = -(\frac{1129}{800})^{\frac{1}{\frac{4}{12}}} + 1$		

8 Rearrange this equation to solve for the rate given this model of a growth in credit card debt with yearly interest?

$$9,457 = 600 \cdot (1 + r)^{(\frac{32}{4})}$$

A	$r = (\frac{9457}{600})^{\frac{1}{\frac{32}{4}}} - 1$	B	$r = -(\frac{9457}{600})^{\frac{1}{32 \cdot 4}} + 1$
C	$r = (\frac{9457}{600})^{\frac{\frac{32}{4}}{2}} - 1$		