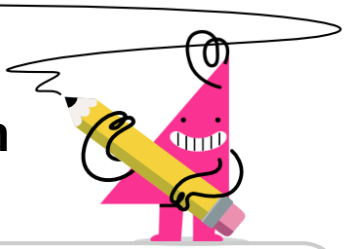
Name



Exponential Function Solving - Growth (Discrete, Mis-matched Time Units) Equation to Value at Time

1 Solve for the final debt given this model of a growth in credit card debt with quarterly interest?

$$D = 400 \cdot (1 + 0.06)^{(3 \cdot 4)}$$

A	$D = D_0 \cdot (1 + r)^{(t \cdot 4)}$	B	$D = D_0 \cdot (1 - r)^{(\frac{t}{4})}$
C	$D = \frac{D_0}{(1 + r)^{(t \cdot 4)}}$		

2 Solve for the final debt given this model of a growth in credit card debt with monthly interest?

$$D = 500 \cdot (1 + 0.08)^{(7 \cdot 3)}$$

A	$D = D_0 \cdot (1 + r)^{(t \cdot 3)}$	B	$D = \frac{D_0}{(1 + r)^{(t \cdot 3)}}$
C	$D = D_0 \cdot (1 - r)^{(\frac{t}{3})}$		

3 Solve for the final cash given this model of a yearly compounding growth of money in a savings account?

$$P = 500 \cdot (1 + 0.07)^{(\frac{32}{4})}$$

A	$P = P_0 \cdot (1 - r)^{(t \cdot 4)}$	B	$P = P_0 \cdot (1 + r)^{(\frac{t}{4})}$
C	$P = \frac{P_0}{(1 + r)^{(\frac{t}{4})}}$		

4 Solve for the final cash given this model of a quarterly compounding growth of money in a savings account?

$$P = 800 \cdot (1 + 0.07)^{(5 \cdot 4)}$$

A	$P = P_0 \cdot (1 - r)^{(\frac{t}{4})}$	B	$P = \frac{P_0}{(1 + r)^{(t \cdot 4)}}$
C	$P = P_0 \cdot (1 + r)^{(t \cdot 4)}$		

5 Solve for the final cash given this model of a yearly compounding growth of money in a savings account?

$$P = 600 \cdot (1 + 0.02)^{(\frac{84}{12})}$$

A	$P = P_0 \cdot (1 + r)^{(\frac{t}{12})}$	B	$P = \frac{P_0}{(1 + r)^{(\frac{t}{12})}}$
C	$P = P_0 \cdot (1 - r)^{(t \cdot 12)}$		

6 Solve for the final debt given this model of a growth in credit card debt with monthly interest?

$$D = 200 \cdot (1 + 0.09)^{(5 \cdot 3)}$$

A	$D = D_0 \cdot (1 - r)^{(\frac{t}{3})}$	B	$D = \frac{D_0}{(1 + r)^{(t \cdot 3)}}$
C	$D = D_0 \cdot (1 + r)^{(t \cdot 3)}$		

7 Solve for the final debt given this model of a growth in credit card debt with quarterly interest?

$$D = 500 \cdot (1 + 0.07)^{(2 \cdot 4)}$$

A	$D = \frac{D_0}{(1 + r)^{(t \cdot 4)}}$	B	$D = D_0 \cdot (1 - r)^{(\frac{t}{4})}$
C	$D = D_0 \cdot (1 + r)^{(t \cdot 4)}$		

8 Solve for the final cash given this model of a yearly compounding growth of money in a savings account?

$$P = 300 \cdot (1 + 0.05)^{(\frac{24}{12})}$$

A	$P = P_0 \cdot (1 - r)^{(t \cdot 12)}$	B	$P = \frac{P_0}{(1 + r)^{(\frac{t}{12})}}$
C	$P = P_0 \cdot (1 + r)^{(\frac{t}{12})}$		