

mobius

Exponential Function Solving - Growth (Discrete) Equation to Rate



Solve for the rate given this model of a monthly compounding growth of money in a savings account?

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$$|1,094 = 900 \cdot (1+r)^{(5)}|422 = 300 \cdot (1+r)^{(7)}$$

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Α	$1+r=+(\frac{P}{P_0})^{\frac{1}{t}}+1$	В	$2+r=+(rac{P}{P_0})^{rac{t}{2}}-1$	Α	$6+r=+(rac{P}{P_0})^{rac{1}{t}}+1$	В	${\bf 4}+r=+(\frac{P}{P_0})^{\frac{t}{2}}-1$
С	$8+r=+(rac{P}{P_0})^{rac{t}{2}}-1$	D	$r=+(\frac{P}{P_0})^{\frac{1}{t}}-1$	С	$r=+(\frac{P}{P_0})^{\frac{1}{\ell}}-1$	D	$1+r = + (\frac{P}{P_0})^{\frac{1}{t}} + 1$

3 Solve for the rate given this model of a growth of an insect population that breeds once per year?

Solve for the rate given this model of a growth of a rabbit population (yearly breeding cycle)?

$$831 = 700 \cdot (1+r)^{(2)}$$

$$|831 = 700 \cdot (1+r)^{(2)}|856 = 500 \cdot (1+r)^{(7)}$$

Α	$0+r=+(rac{P}{P_0})^{rac{1}{i}}+1$	В	$7+r=+(rac{P}{P_0})^{rac{t}{2}}\!-\!1$	Α	$8+r=+(rac{P}{P_0})^{rac{t}{2}}\!-\!1$	В	$3+r=+(rac{P}{P_0})^{rac{1}{t}}+1$
С	$4+r=+(\frac{P}{P_0})^{\frac{1}{t}}+1$	D	$r=+(\frac{P}{P_0})^{\frac{1}{t}}-1$	С	$r=+(\frac{P}{P_0})^{\frac{1}{t}}-1$	D	$6+r=+(rac{P}{P_0})^{rac{t}{2}}-1$

5 Solve for the rate given this model of a growth in credit card debt with yearly interest?

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

$$655 = 500 \cdot (1+r)^{(4)}$$

$$655 = 500 \cdot (1+r)^{(4)} | 583 = 500 \cdot (1+r)^{(2)}$$

Α	$3+r=+(rac{D}{D_0})^{rac{t}{2}}\!-\!1$	В	$1+r=+(\frac{D}{D_0})^{\frac{t}{2}}-1$	Α	${\bf 4}+r=+(\frac{D}{D_0})^{\frac{1}{t}}+{\bf 1}$	В	$r=+(\frac{D}{D_0})^{\frac{1}{t}}-1$
С	$r=+(\frac{D}{D_0})^{\frac{1}{t}}-1$	D	$6+r=+(rac{D}{D_0})^{rac{1}{t}}+1$	С	${\bf 4}+r=+(\frac{D}{D_0})^{\frac{t}{2}}-{\bf 1}$	D	$3+r=+(rac{D}{D_0})^{rac{1}{t}}+1$

7 Solve for the rate given this model of a growth of an insect population that breeds once per year?

Solve for the rate given this model of a monthly compounding growth of money in a savings account?

$$|1,353 = 900 \cdot (1+r)^{(7)}|356 = 300 \cdot (1+r)^{(2)}$$

$$356 = 300 \cdot (1+r)^{(2)}$$

Α	$2+r=+(rac{P}{P_0})^{rac{1}{t}}+1$	В	$0+r=+(rac{P}{P_0})^{rac{1}{\epsilon}}+1$	Α	$7+r=+(rac{P}{P_0})^{rac{t}{2}}-1$	В	$9+r=+(\frac{P}{P_0})^{\frac{1}{t}}+1$	
С	$5+r=+(rac{P}{P_0})^{rac{1}{i}}+1$	D	$r=+(\frac{P}{P_0})^{\frac{1}{i}}-1$	С	$r=+(\frac{P}{P_0})^{\frac{1}{l}}-1$	D	$2+r=+(rac{P}{P_0})^{rac{t}{2}}-1$	