



Exponential Function Solving - Growth (Discrete) Equation to Rate

1 What is the value of the rate given this model of a quarterly compounding growth of money in a savings account?

$$574 = 500 \cdot (1 + r)^{(7)}$$

A	B	C	D
$r = 3\%$	$r = 4\%$	$r = 2\%$	$r = 6\%$

2 What is the value of the rate given this model of a growth of an insect population that breeds once per year?

$$757 = 700 \cdot (1 + r)^{(4)}$$

A	B	C	D
$r = 4\%$	$r = 3\%$	$r = 7\%$	$r = 2\%$

3 What is the value of the rate given this model of a yearly compounding growth of money in a savings account?

$$614 = 500 \cdot (1 + r)^{(7)}$$

A	B	C	D
$r = 1\%$	$r = 6\%$	$r = 8\%$	$r = 3\%$

4 What is the value of the rate given this model of a growth of a rabbit population (yearly breeding cycle)?

$$793 = 500 \cdot (1 + r)^{(6)}$$

A	$r = 8\%$	B	$r = 12\%$
C	$r = 10\%$	D	$r = 3\%$

5 What is the value of the rate given this model of a growth in credit card debt with quarterly interest?

$$393 = 300 \cdot (1 + r)^{(4)}$$

A	B	C	D
$r = 7\%$	$r = 8\%$	$r = 3\%$	$r = 9\%$

6 What is the value of the rate given this model of a growth of a rabbit population (yearly breeding cycle)?

$$398 = 200 \cdot (1 + r)^{(8)}$$

A	$r = 10\%$	B	$r = 11\%$
C	$r = 9\%$	D	$r = 6\%$

7 What is the value of the rate given this model of a yearly compounding growth of money in a savings account?

$$881 = 700 \cdot (1 + r)^{(3)}$$

A	$r = 6\%$	B	$r = 5\%$
C	$r = 8\%$	D	$r = 12\%$

8 What is the value of the rate given this model of a yearly compounding growth of money in a savings account?

$$243 = 200 \cdot (1 + r)^{(5)}$$

A	B	C	D
$r = 5\%$	$r = 8\%$	$r = 4\%$	$r = 1\%$