1

A rabbit population starts at 400. Each subsequent yearly breeding season it grows by a certain percent. After 9 years it has increased to a population of 620 rabbits.

Rearrange the exponential equation to solve for for the rate given this scenario?

A	B
$r = (\frac{620}{400})^{\frac{1}{9}} - 1$	$r = -(\frac{620}{400})^{\frac{1}{9}} + 1$

2

A savings account starts with $600. Each subsequent quarter it earns a certain percent interest. After 9 quarters it has $853.

Rearrange the exponential equation to solve for for the rate given this scenario?

A	B
$r = (\frac{853}{600})^{\frac{9}{2}} - 1$	$r = (\frac{853}{600})^{\frac{1}{9}} - 1$
C $r = -(\frac{853}{600})^{\frac{1}{9}} + 1$	

3

An insect population starts at 900. Each subsequent yearly breeding season it grows by a certain percent. After 4 years it has increased to a population of 1,012.

Rearrange the exponential equation to solve for for the rate given this scenario?

A	B
$r = (\frac{1012}{900})^{\frac{4}{2}} - 1$	$r = -(\frac{1012}{900})^{\frac{1}{4}} + 1$
C $r = (\frac{1012}{900})^{\frac{1}{4}} - 1$	

4

An insect population starts at 400. Each subsequent yearly breeding season it grows by a certain percent. After 2 years it has increased to a population of 441.

Rearrange the exponential equation to solve for for the rate given this scenario?

A	B
$r = (\frac{441}{400})^{\frac{2}{2}} - 1$	$r = -(\frac{441}{400})^{\frac{1}{2}} + 1$
C $r = (\frac{441}{400})^{\frac{1}{2}} - 1$	

5

An insect population starts at 200. Each subsequent yearly breeding season it grows by a certain percent. After 7 years it has increased to a population of 300.

Rearrange the exponential equation to solve for for the rate given this scenario?

A	B
$r = -(\frac{300}{200})^{\frac{1}{7}} + 1$	$r = (\frac{300}{200})^{\frac{1}{7}} - 1$

6

A savings account starts with $900. Each subsequent quarter it earns a certain percent interest. After 6 quarters it has $1,206.

Rearrange the exponential equation to solve for for the rate given this scenario?

A	B
$r = -(\frac{1206}{900})^{\frac{1}{6}} + 1$	$r = (\frac{1206}{900})^{\frac{1}{6}} - 1$
C $r = (\frac{1206}{900})^{\frac{6}{2}} - 1$	

7

A savings account starts with $300. Each subsequent year it earns a certain percent interest. After 2 years it has $349.

Rearrange the exponential equation to solve for for the rate given this scenario?

A	B
$r = (\frac{349}{300})^{\frac{2}{2}} - 1$	$r = (\frac{349}{300})^{\frac{1}{2}} - 1$
C $r = -(\frac{349}{300})^{\frac{1}{2}} + 1$	

8

A rabbit population starts at 400. Each subsequent yearly breeding season it grows by a certain percent. After 5 years it has increased to a population of 561 rabbits.

Rearrange the exponential equation to solve for for the rate given this scenario?

A	B
$r = (\frac{561}{400})^{\frac{5}{2}} - 1$	$r = (\frac{561}{400})^{\frac{1}{5}} - 1$
C $r = -(\frac{561}{400})^{\frac{1}{5}} + 1$	