Exponential Functions: Growth & Decay · 1

$f(x) = 3(2)^x$. Find $f(3)$.

Exponential Functions: Growth & Decay · 2

Does $y = 660(0.73)^t$ represent exponential growth or decay?

Exponential Functions: Growth & Decay · 3

$f(x) = 6(5)^x$. Find $f(3)$.

Exponential Functions: Growth & Decay · 4

$f(x) = 5^x$. Find $f(1)$.

Exponential Functions: Growth & Decay · 5

Does $y = 720(1.25)^t$ represent exponential growth or decay?

Exponential Functions: Growth & Decay · 6

$f(x) = 6(4)^x$. Find $f(3)$.

Exponential Functions: Growth & Decay · 7

$f(x) = 5(5)^x$. Find $f(1)$.

Exponential Functions: Growth & Decay · 8

Does $y = 900(1.25)^t$ represent exponential growth or decay?

Exponential Functions: Growth & Decay · 2

ANSWER

decay

Exponential Functions: Growth & Decay · 1

ANSWER

24

Exponential Functions: Growth & Decay · 4

ANSWER

5

Exponential Functions: Growth & Decay · 3

ANSWER

750

Exponential Functions: Growth & Decay · 6

ANSWER

384

Exponential Functions: Growth & Decay · 5

ANSWER

growth

Exponential Functions: Growth & Decay · 8

ANSWER

growth

Exponential Functions: Growth & Decay · 7

ANSWER

25

$f(x) = 6(3)^x$. Find $f(2)$.

$f(x) = 6(3)^x$. Find $f(3)$.

Does $y = 140(0.92)^t$ represent exponential growth or decay?

$f(x) = 4^x$. Find $f(3)$.

$f(x) = 4(4)^x$. Find $f(4)$.

The value of an investment is modeled by $y = 6100(0.93)^t$, where t is in years. By what percent does it decrease each year?

A town has 5000 people. Its population grows by 7% each year. What will the population be after 4 years?

$f(x) = 320\left(\frac{1}{2}\right)^x$. Find $f(5)$.

Exponential Functions: Growth & Decay · 10

ANSWER

162

Exponential Functions: Growth & Decay · 9

ANSWER

54

Exponential Functions: Growth & Decay · 12

ANSWER

64

Exponential Functions: Growth & Decay · 11

ANSWER

decay

Exponential Functions: Growth & Decay · 14

ANSWER

7%

Exponential Functions: Growth & Decay · 13

ANSWER

1024

Exponential Functions: Growth & Decay · 16

ANSWER

10

Exponential Functions: Growth & Decay · 15

ANSWER

6554

Exponential Functions: Growth & Decay · 17

The value of a car is modeled by $y = 7200(0.72)^t$, where t is in years. By what percent does it decrease each year?

Exponential Functions: Growth & Decay · 18

A town has 6700 people. Its population grows by 3% each year. What will the population be after 10 years?

Exponential Functions: Growth & Decay · 19

$f(x) = 3(5)^x$. Find f(1).

Exponential Functions: Growth & Decay · 20

Does $y = 720(0.75)^t$ represent exponential growth or decay?

Exponential Functions: Growth & Decay · 21

$f(x) = 5(2)^x$. Find f(2).

Exponential Functions: Growth & Decay · 22

$f(x) = 3(3)^x$. Find f(3).

Exponential Functions: Growth & Decay · 23

Does $y = 440(1.20)^t$ represent exponential growth or decay?

Exponential Functions: Growth & Decay · 24

$f(x) = 2^x$. Find f(2).

Exponential Functions: Growth & Decay · 18

ANSWER

9004

Exponential Functions: Growth & Decay · 17

ANSWER

28%

Exponential Functions: Growth & Decay · 20

ANSWER

decay

Exponential Functions: Growth & Decay · 19

ANSWER

15

Exponential Functions: Growth & Decay · 22

ANSWER

81

Exponential Functions: Growth & Decay · 21

ANSWER

20

Exponential Functions: Growth & Decay · 24

ANSWER

4

Exponential Functions: Growth & Decay · 23

ANSWER

growth