Graphing Exponential Functions · 1

Find y when x = 4 for $y = 48(\frac{1}{2})^x$.

Graphing Exponential Functions · 2

What is the horizontal asymptote of the graph of $y = 3(\frac{1}{2})^x - 8$?

Graphing Exponential Functions · 3

Find the y-intercept of $y = 6(3)^x$.

Graphing Exponential Functions · 4

Does $y = 4(4)^x - 4$ show exponential growth or exponential decay?

Graphing Exponential Functions · 5

Write the equation of the exponential graph in the form $y = a(b)^x$.



Graphing Exponential Functions · 6

Find y when x = -1 for $y = 8(2)^x$.

Graphing Exponential Functions · 7

Find y when x = 2 for $y = 6(5)^x$.

Graphing Exponential Functions · 8

What is the horizontal asymptote of the graph of $y = 2^x + 2$?

Graphing Exponential Functions · 2

ANSWER

$y = -8$

Graphing Exponential Functions · 1

ANSWER

3

Graphing Exponential Functions · 4

ANSWER

growth

Graphing Exponential Functions · 3

ANSWER

6

Graphing Exponential Functions · 6

ANSWER

4

Graphing Exponential Functions · 5

ANSWER

$y = 2(4)^x$

Graphing Exponential Functions · 8

ANSWER

$y = 2$

Graphing Exponential Functions · 7

ANSWER

150

Graphing Exponential Functions · 9

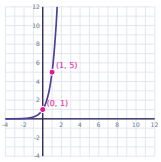
Find the y-intercept of $y = 5(3)^x$.

Graphing Exponential Functions · 10

Does $y = (\frac{1}{2})^x + 6$ show exponential growth or exponential decay?

Graphing Exponential Functions · 11

Write the equation of the exponential graph in the form $y = a(b)^x$.



Graphing Exponential Functions · 12

Find y when x = -2 for $y = 8(2)^x$.

Graphing Exponential Functions · 13

Find y when x = -1 for $y = 16(4)^x - 7$.

Graphing Exponential Functions · 14

What is the horizontal asymptote of the graph of $y = 2^x + 7$?

Graphing Exponential Functions · 15

Write the range of $y = 2^x + 5$ as an inequality.

Graphing Exponential Functions · 16

The graph of $y = (\frac{1}{3})^x$ is stretched vertically by a factor of 4 and then shifted 8 units down. Write the equation of the new graph.

Graphing Exponential Functions · 10

ANSWER

decay

Graphing Exponential Functions · 9

ANSWER

5

Graphing Exponential Functions · 12

ANSWER

2

Graphing Exponential Functions · 11

ANSWER

$y = 5^x$

Graphing Exponential Functions · 14

ANSWER

y = 7

Graphing Exponential Functions · 13

ANSWER

-3

Graphing Exponential Functions · 16

ANSWER

$y = 4\left(\frac{1}{3}\right)^x - 8$

Graphing Exponential Functions · 15

ANSWER

y > 5

Find y when x = 3 for $y = 4(2)^x + 8$.

Find y when x = 2 for $y = 4(3)^x$.

What is the horizontal asymptote of the graph of $y = 5(2)^x + 1$?

Find the y-intercept of $y = 4(\frac{1}{3})^x$.

Does $y = 3(\frac{1}{2})^x + 4$ show exponential growth or exponential decay?

Write the equation of the exponential graph in the form $y = a(b)^x$.



Find y when x = -2 for $y = 9(3)^x$.

Find y when x = 4 for $y = 243(\frac{1}{3})^x$.

Graphing Exponential Functions · 18

ANSWER

36

Graphing Exponential Functions · 17

ANSWER

40

Graphing Exponential Functions · 20

ANSWER

4

Graphing Exponential Functions · 19

ANSWER

y = 1

Graphing Exponential Functions · 22

ANSWER

$y = 2(2)^x$

Graphing Exponential Functions · 21

ANSWER

decay

Graphing Exponential Functions · 24

ANSWER

3

Graphing Exponential Functions · 23

ANSWER

1