WARM-UP

5/14/2021

# KAHOOT REVIEW- IDENTIFYING FUNCTIONS

What type of equation is this?

14

$$y = 2x - 4$$

▲ Exponentail

◆ Linear ✓

● Quadratic

What type of equation is this?

17

$$y = 2^x$$

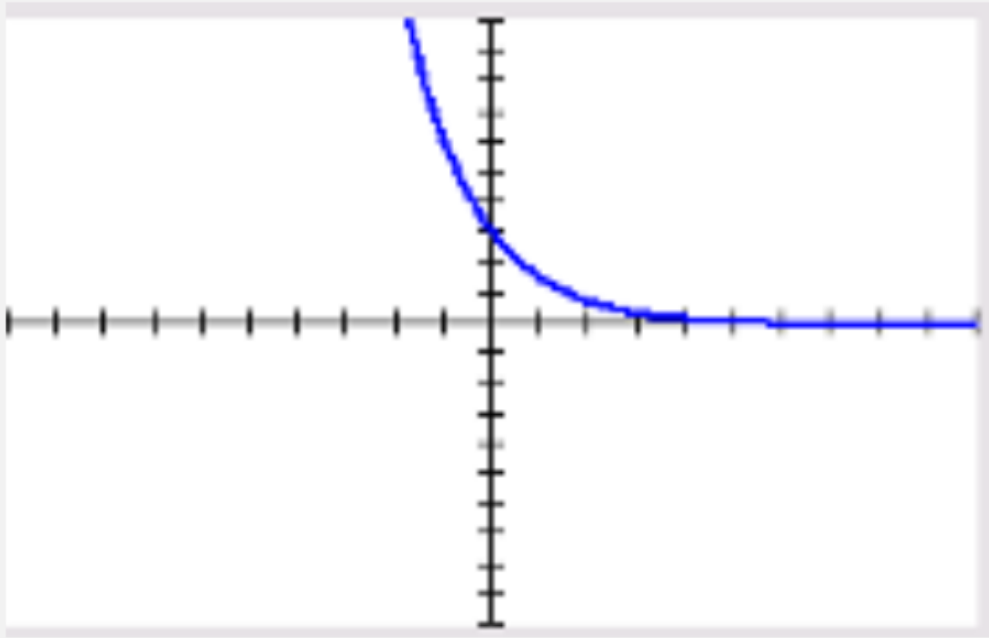
▲ Exponential

◆ Quadratic

● Linear

# What type of graph is this?

15



▲ Exponential Growth

◆ Linear

● Exponential Decay

■ Quadratic

What type of equation is this?

16

$$y = 3x^2 + 2$$

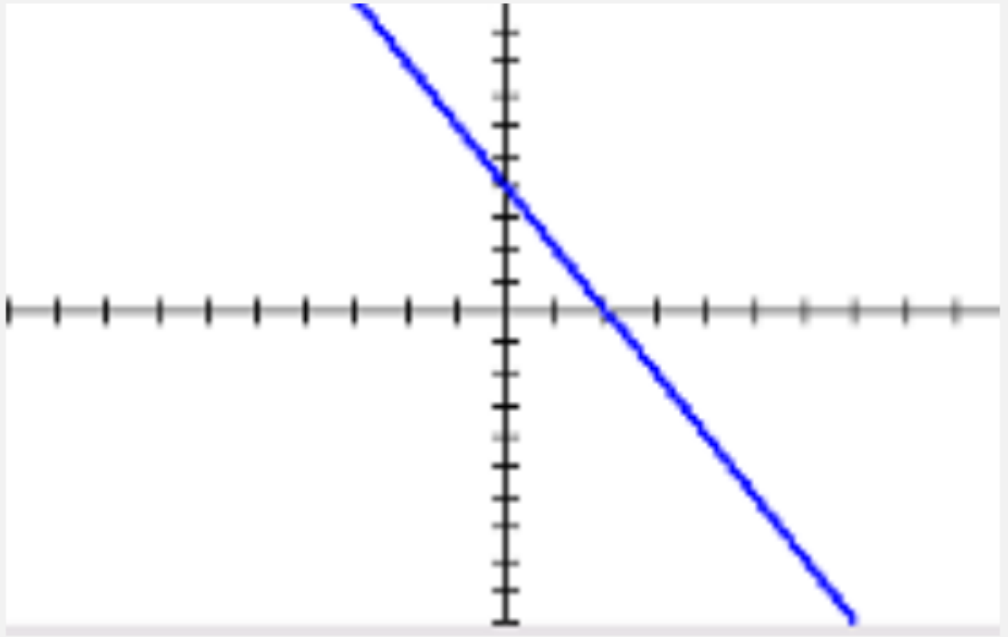
▲ Quadratic

◆ Linear

● Exponential

# What type of graph is this?

17



▲ Quadratic

◆ Exponential Growth

● Exponential Decay

■ Linear

What type of equation is this?

$y = a(b)^x$

$b < 1$ decay

$b > 1$ growth

15

$$y = 4(.5)^x$$

▲ Exponential Growth

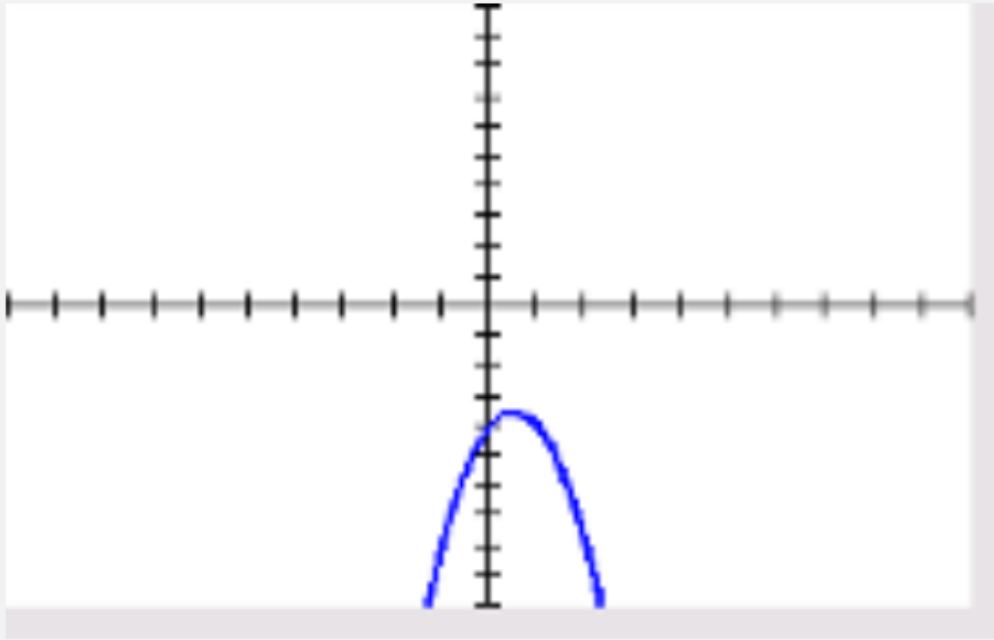
◆ Linear

● Exponential Decay ✓

■ Quadratic

# What type of graph is this?

15



▲ Quadratic

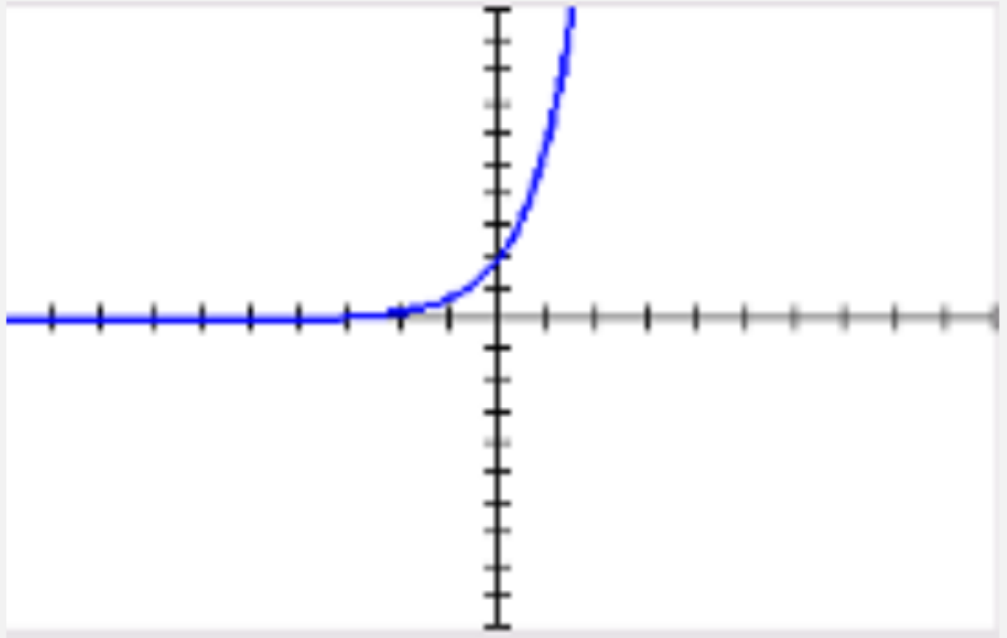
◆ Exponential Growth

● Linear

■ Exponential Decay

# What kind of Graph is this?

15



▲ Linear

◆ Quadratic

● Exponential Decay

✓ Exponential Growth

What type of equation is this?

15

$$y = x^2 - 4x + 2$$

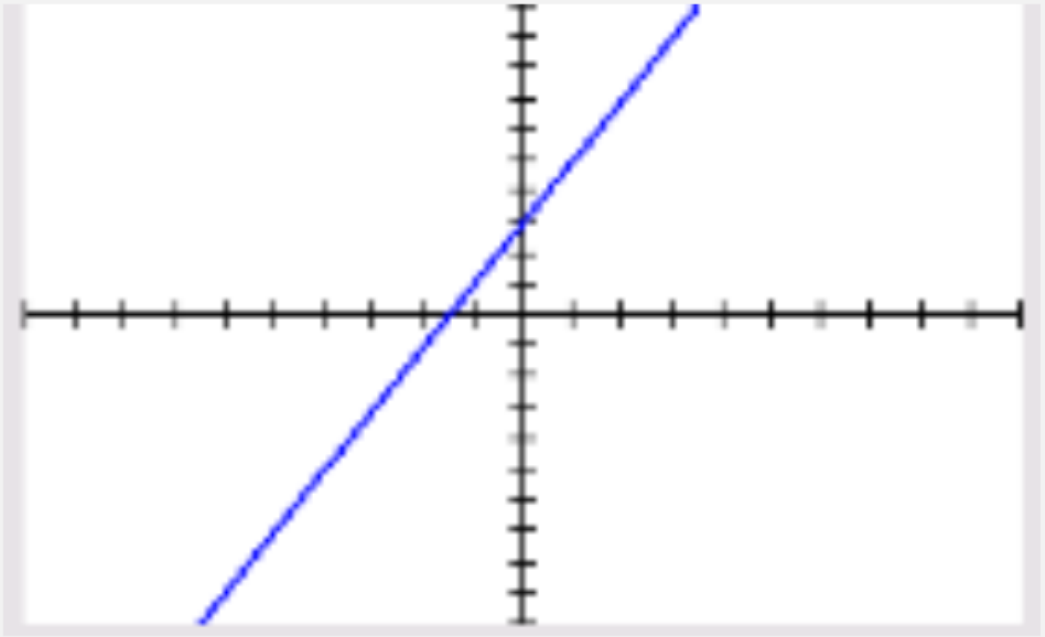
▲ Linear

◆ Exponential

● Quadratic

# What type of graph is this?

17



▲ Quadratic

◆ Linear

● Exponential Growth

■ Exponential Decay

What type of equation is this?

16

$$2x - 4y = 8$$

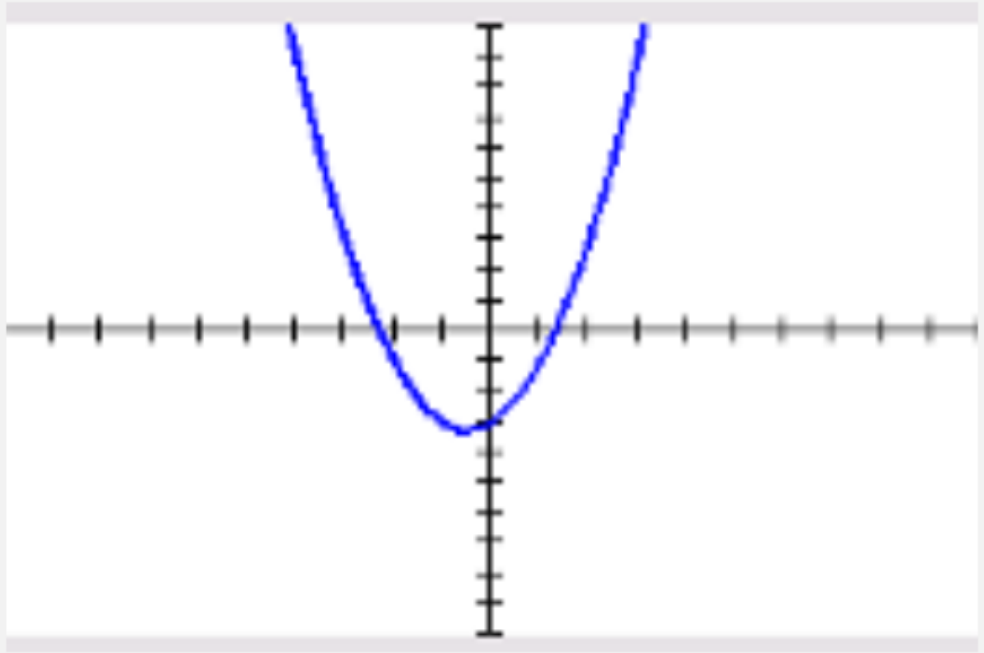
▲ Exponential

◆ Quadratic

● Linear ✓

# What type of Graph is this?

17



▲ Exponential Growth

◆ Quadratic

● Exponential Decay

■ Linear

# KAHOOT REVIEW- PARENT FUNCTIONS AND TRANSFORMATIONS

WARM-UP

5/14/2021

How does the graph of f(x) = x - 4 differ from that of g(x) = x

outside parenthesis

27


▲ Translated 4 units left

◆ Translated 4 units down

● Translated 4 units right

■ Translated 4 units up

How does the graph of $f(x) = x^2$ differ from that of $g(x) = (x - 3)^2 + 2$?

h k

right up

15


▲ Shifted 3 units left and 2 up

◆ Shifted 2 units left and 3 up

● Shifted 2 units right and 3 down

■ Shifted 3 units right and 2 up

How does the graph of $f(x) = x^2$ differ from the graph of $f(x) = -x^2$

28

▲ Moved one unit down

◆ Reflected across the x-axis

● Moved one unit left

■ Reflected across the y-axis

How does the graph of f(x) = x differ from y = 5x?

$a > 1$ stretch

$a < 1$ compress

27


▲ It is stretched vertically

◆ It is compressed vertically

How does the graph of $f(x) = x^2$ differ from that of $g(x) = 2(x-4)^2$

25


A

▲ Shifted 4 units right and stretched vertically

◆ Shifted 4 units left and stretched vertically

● Shifted 4 units right and compressed vertically

■ Shifted 4 units left and compressed vertically

What does the graph of f(x) = 2 look like?

19


▲ Horizontal line @ x = 2

◆ Vertical line @ x = 2

● Horizontal line @ y = 2

■ Vertical line @ y = 2

How does the graph of $f(x) = x^2$ differ from the graph of $g(x) = (-x)^2$?

26


▲ Reflected across the x-axis

◆ Reflected across the y-axis

● Translated down 1 unit

■ Translated up 1 unit