

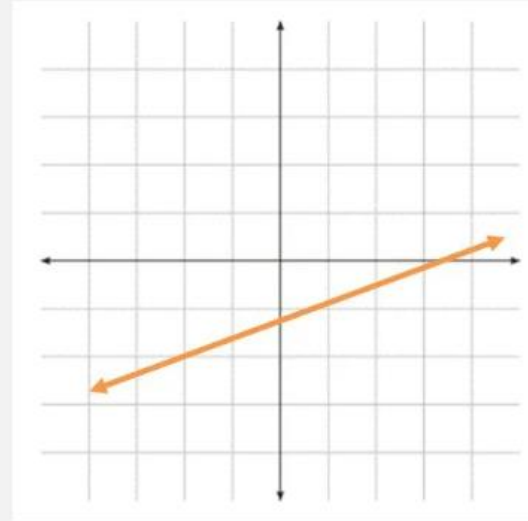
KAHOOT
REVIEW -
IDENTIFY
LINEAR,
QUADRATIC, &
EXPONENTIAL
FUNCTIONS

Warm-Up 5/13/2021



Is the following function linear, quadratic, exponential or other?

22



▲ Linear



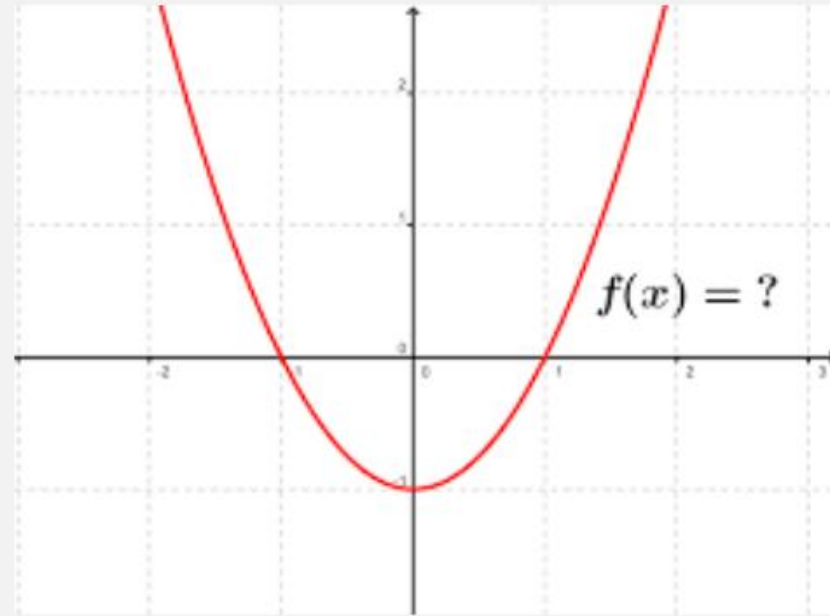
◆ Quadratic

● Exponential

■ Other

Is the following function linear, quadratic or exponential?

25



Linear

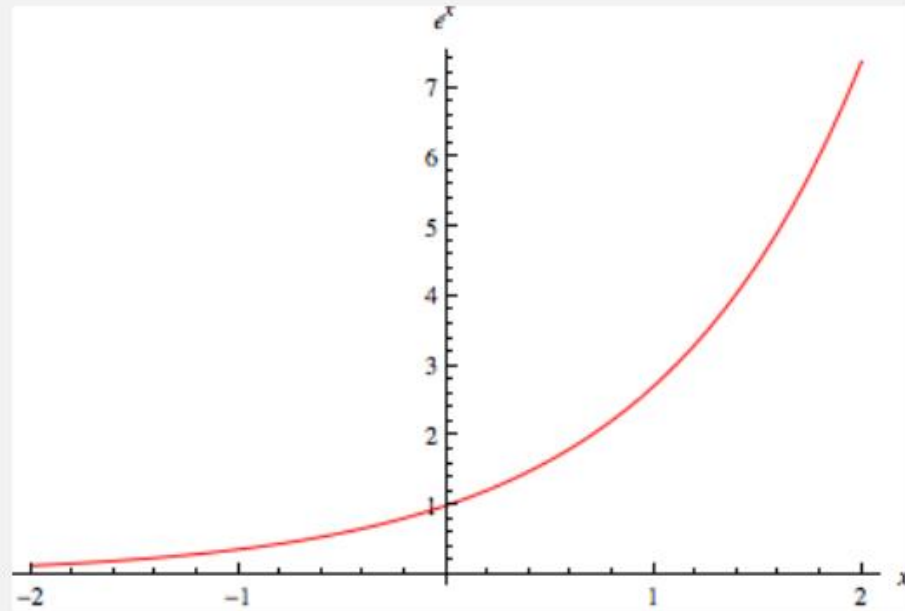
Quadratic ✓

Exponential

Other

Is the following function linear, quadratic or exponential?

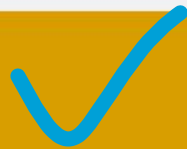
26



▲ Linear

◆ Quadratic

● Exponential



■ Linear

Is the following function linear, quadratic, exponential or other? $y = 3(2)^x$

$$y = ab^x$$

initial
value

Common
ratio

or
y-intercept



27

▲ Linear

◆ Quadratic

● Exponential

✓ $y = ab^x$

■ Other

Is the following function linear, quadratic, exponential or other? $y = 3x + 5$

$$y = mx + b$$



Show media

▲ Linear



◆ Quadratic

● Exponential



■ Neither

Is the following function linear, quadratic, exponential or other? $y = 2x^2 - 3x + 1$

7

highest exponent
= 2



▲ Linear

◆ Quadratic ✓

● Exponential

■ Neither

Does the following table represent a linear, quadratic, or exponential function?

$$y = 1(2)^x$$

x	-2	-1	0	1	2	3	4
y	$\frac{1}{4}$	$\frac{1}{2}$	1	2	4	8	16

$b = \times 2 \times 2 \times 2 \times 2 \times 2 \times 2$

57

▲ Linear

◆ Quadratic

● Exponential ✓

■ Neither

Does the following table represent a linear, quadratic, or exponential function?

47

x	y
1	2
2	7
3	12
5	22

+5
+5

Constant 1st difference

Linear

Quadratic

Exponential

Neither

Does the following table represent a linear, quadratic, or exponential function?

$$y = 5(3)^x$$

56

t	0	1	2	3
$f(t)$	5	15	45	135

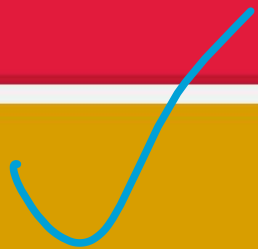
Handwritten annotations below the table: blue checkmarks pointing to the values 5, 15, and 45, with "x3" written below each checkmark, indicating a constant multiplier of 3 between consecutive terms.

▲ Linear

◆ Quadratic

● Exponential

■ Neither



Does the following table represent a linear, quadratic or exponential function?

53

Constant
2nd difference
of 2

x	y
1	1
2	4
3	9
4	16
5	25

+3
+5
+7
+9

+2
+2
+2

linear

quadratic

exponential

neither

Does the following table represent a linear, quadratic or exponential function?

58

Constant 1st
difference of 5

Input (days)	Output (\$)
1	15
2	20
3	25
4	30
5	35
6	40
9	55
11	65

> +5

The #s are increasing by adding 5

linear

quadratic

exponential

neither

Does the following table represent a linear, quadratic or exponential function?

28

x	-5	-4	-3	-2	-1	0	1	2	3	4	5
y	25	16	9	4	1	0	1	4	9	16	25

Same #s Vertex Same #s

Linear

Quadratic

Exponential

Neither

What is the y-intercept of the following linear function? $y = 2x - 5$

$$y = mx + b$$

slope y -int
 $(0, b)$

28



▲ $(0, 5)$

◆ $(2, 0)$

● $(0, -5)$



■ $(-5, 0)$

What is the y - intercept of the following exponential function? $y = 3 (2)^x$

29

Kahoot!

▲ (0,2)

◆ (0, 3) ✓

● (2, 0)

■ (3, 0)

What is the y - intercept of the following quadratic function? $y = 2x^2 - 3x + 1$

When $x = 0$

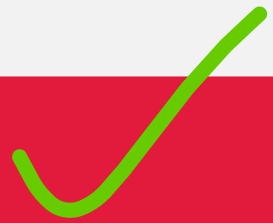
$$y = 1$$

29

$$2(0)^2 - 3(0) + 1$$

Kahoot!

▲ (0, 1)



◆ (0, -3)

● (1, 0)

■ (2, 0)

What is the y-intercept of the following exponential function? $y = 4(2)^x + 1$

y-intercept = what is y when $x = 0$?

57

$$y = 4(2)^0 + 1$$

$$y = 4(1) + 1$$

$$y = 5$$



▲ (0, 4)

◆ (4, 0)

● (0, 5)

■ (0, 2)

