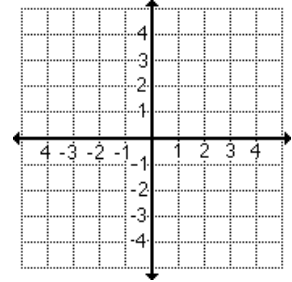
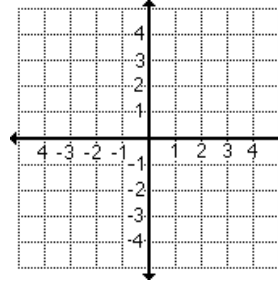
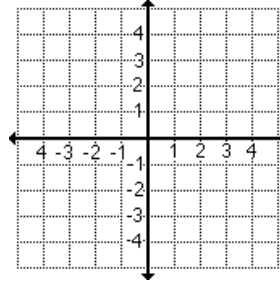
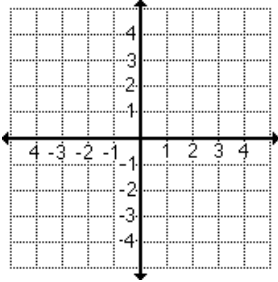


Function:

Function Notation:

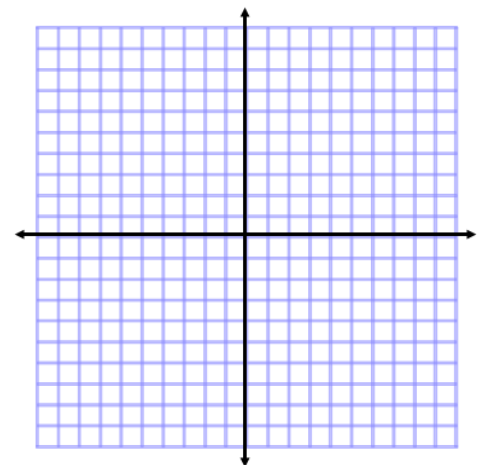
**Types of Slope**



**FINDING MANY SOLUTIONS TO A FUNCTION**

Find five solutions of  $y = 2x - 5$ . Write the solutions as ordered pairs. Graph by plotting ordered pairs.

$x$		$y$	$(x, y)$



**FINDING SINGLE SOLUTIONS TO A FUNCTION**

If  $f(x) = 2x - 5$ , find the value of each function:

$f(7)$

$f(-4)$

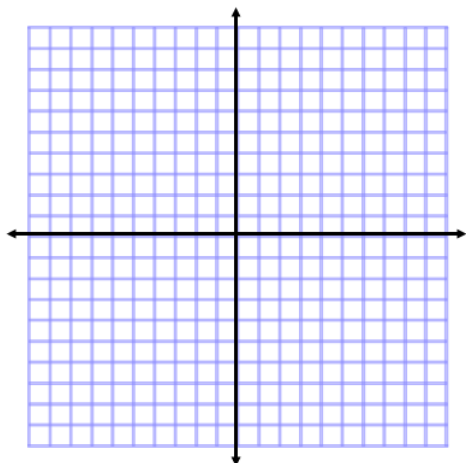
$f(3)$

## Graphing and Slope

## Monday – Homework

Find five solutions of  $y = -4x + 3$ . Write the solutions as ordered pairs. Graph by plotting ordered pairs.

$x$		$y$	$(x, y)$

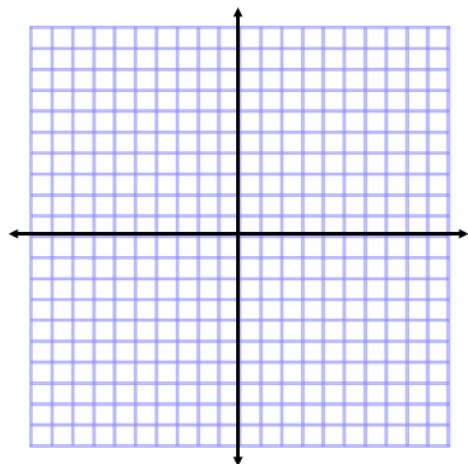


What type of slope is this? \_\_\_\_\_

Is this a function? Explain. \_\_\_\_\_

Find five solutions of  $-x + y = 6$ . Write the solutions as ordered pairs. Graph by plotting ordered pairs.

$x$		$y$	$(x, y)$



What type of slope is this? \_\_\_\_\_

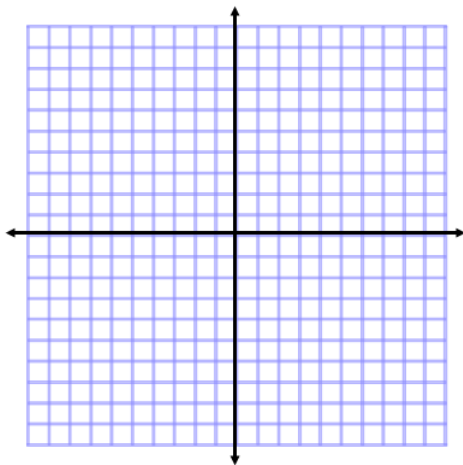
Is this a function? Explain. \_\_\_\_\_

## Graphing and Slope

## Monday – Homework

Find five solutions of  $y = -|2x| - 5$ . Write the solutions as ordered pairs. Graph by plotting ordered pairs.

$x$		$y$	$(x, y)$



What type of slope is this? \_\_\_\_\_

Is this a function? Explain. \_\_\_\_\_

If  $f(x) = \frac{1}{2}x - 6$  find the value of each function:

$f(9)$

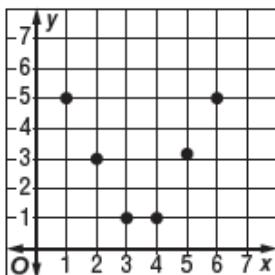
$f(-6)$

$f(12)$

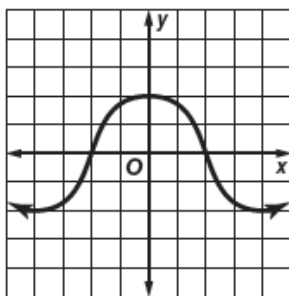
What is a function?

Graphs - Function or Not?

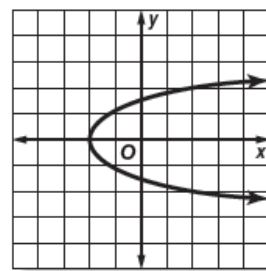
Trick:



Function or Not



Function or Not



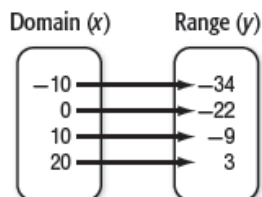
Function or Not

Tables – Function or Not?

Trick:

<b>x</b>	-3.0	3.5	4.1	-3.0	3.4
<b>y</b>	4.2	3.7	-3.8	3.7	4.0

Function or Not



Function or Not

<b>x</b>	8	1	-5	1	-10
<b>y</b>	-2	3	7	7	13

Function or Not

Ordered Pairs Function or Not?

Trick:

$\{(0, 1), (-4, -3), (-3, 6), (3, 6)\}$

Function or Not

$\{(-6, 3), (2, -2), (0, 8), (1, 1)\}$

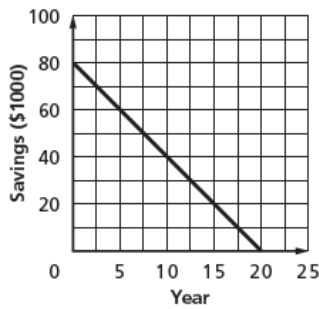
Function or Not

$\{(4, -5), (0, -9), (1, 0), (7, 0)\}$

Function or Not

How do you read slope on a graph?

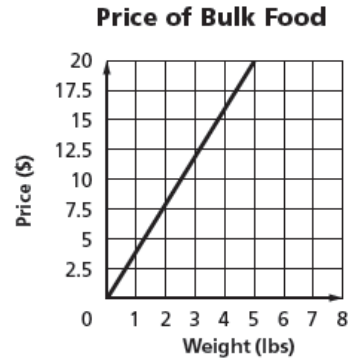
Graphs - Give the slope and interpret its meaning.



Positive or Negative \_\_\_\_\_

Slope \_\_\_\_\_

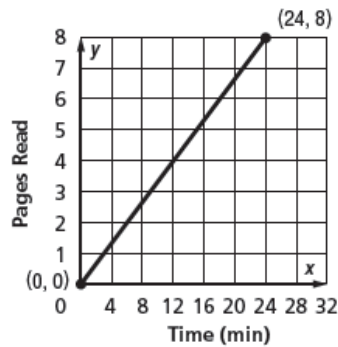
Meaning \_\_\_\_\_



Positive or Negative \_\_\_\_\_

Slope \_\_\_\_\_

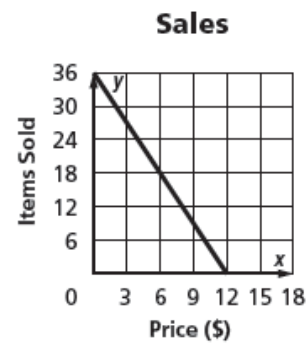
Meaning \_\_\_\_\_



Positive or Negative \_\_\_\_\_

Slope \_\_\_\_\_

Meaning \_\_\_\_\_



Positive or Negative \_\_\_\_\_

Slope \_\_\_\_\_

Meaning \_\_\_\_\_

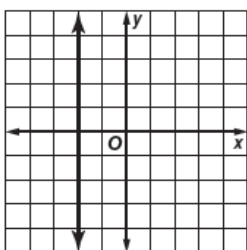
## Graphing and Slope

## Tuesday – Homework

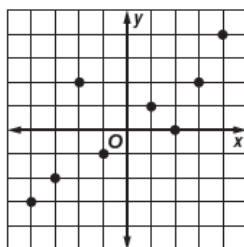
What is a function?

Graphs - Function or Not?

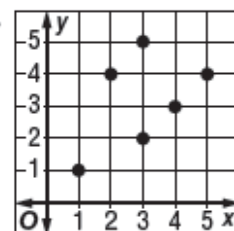
Trick:



Function or Not



Function or Not



Function or Not

Tables – Function or Not?

Trick:

<b>x</b>	-1.2	1.1	1.7	-1.2	1.0
<b>y</b>	2.8	2.3	-2.4	2.3	2.6

Function or Not

Price (\$)	Pages
10.45	135
24.38	170
23.54	180
23.54	272
22.61	300

Function or Not

<b>x</b>	1	-3	8	-8	20
<b>y</b>	2	6	6	5	11

Function or Not

Ordered Pairs Function or Not?

Trick:

$\{(3, -8), (3, 2), (6, -1), (2, 2)\}$

Function or Not

$\{(5, 2), (-2, 15), (-7, 15), (1, 5), (4, 15), (-7, 2)\}$

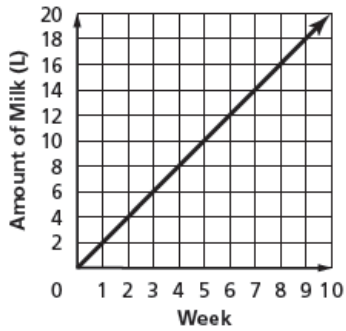
Function or Not

## Graphing and Slope

## Tuesday – Homework

How do you read slope on a graph?

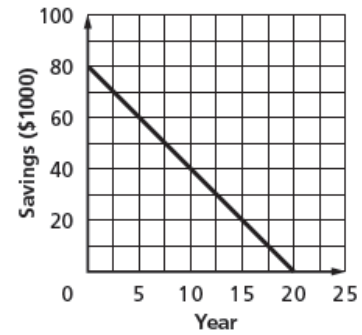
Graphs - Give the slope and interpret its meaning.



Positive or Negative \_\_\_\_\_

Slope \_\_\_\_\_

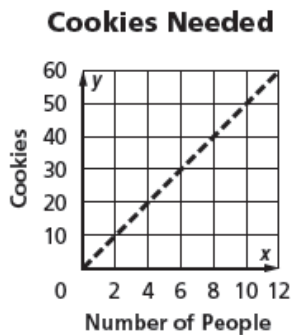
Meaning \_\_\_\_\_



Positive or Negative \_\_\_\_\_

Slope \_\_\_\_\_

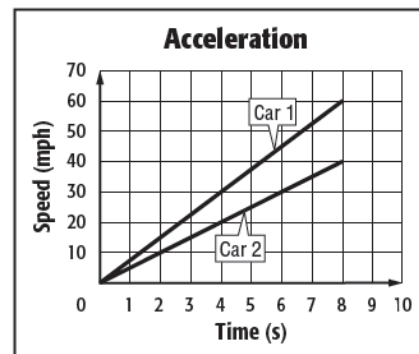
Meaning \_\_\_\_\_



Positive or Negative \_\_\_\_\_

Slope \_\_\_\_\_

Meaning \_\_\_\_\_



- Answer for Car 2

Positive or Negative \_\_\_\_\_

Slope \_\_\_\_\_

Meaning \_\_\_\_\_

## Graphing and Slope

## Wednesday – Notes

How do you find slope with ordered pairs and tables?

Ordered Pairs – Find the slope of the line that passes through each pair of points.

$$R(6, -5), S(7, 3)$$

$$T(5, -6), U(8, -12)$$

$$A(3, -6) \text{ and } B(3, -9)$$

Slope \_\_\_\_\_

Slope \_\_\_\_\_

Slope \_\_\_\_\_

Slope Intercept Form

Name the slope and y-intercept of each line below.

$$y = \frac{1}{4}x + 3$$

$$y = 4x + 12$$

$$3x + y = 8$$

Is it in form? \_\_\_\_\_

Is it in form? \_\_\_\_\_

Is it in form? \_\_\_\_\_

Slope \_\_\_\_\_

Slope \_\_\_\_\_

Slope \_\_\_\_\_

Y-Intercept \_\_\_\_\_

Y-Intercept \_\_\_\_\_

Y-Intercept \_\_\_\_\_



## Graphing and Slope

## Wednesday – Homework

How do you find slope with ordered pairs and tables?

Ordered Pairs – Find the slope of the line that passes through each pair of points.

$$A(1, -5), B(6, -7)$$

$$T(1, 8), U(7, 8)$$

$$A(4, 5) \text{ and } B(-3, 5)$$

Slope \_\_\_\_\_

Slope \_\_\_\_\_

Slope \_\_\_\_\_

$$G(-15, 7), H(-10, 6)$$

$$R(-2, -3), S(-2, -5)$$

$$T(-13, 8), U(21, 8)$$

Slope \_\_\_\_\_

Slope \_\_\_\_\_

Slope \_\_\_\_\_

## Graphing and Slope

## Wednesday – Homework

Write Slope Intercept Form

Name the slope and y-intercept of each line below.

$$y = \frac{2}{3}x + 3$$

$$-3x = y + 1$$

$$y = -2x - 1$$

Is it in form? \_\_\_\_\_

Is it in form? \_\_\_\_\_

Is it in form? \_\_\_\_\_

Slope \_\_\_\_\_

Slope \_\_\_\_\_

Slope \_\_\_\_\_

Y-Intercept \_\_\_\_\_

Y-Intercept \_\_\_\_\_

Y-Intercept \_\_\_\_\_

$$y = \frac{1}{4}x + 5$$

$$3x - y = 6$$

$$y = -x + 4$$

Is it in form? \_\_\_\_\_

Is it in form? \_\_\_\_\_

Is it in form? \_\_\_\_\_

Slope \_\_\_\_\_

Slope \_\_\_\_\_

Slope \_\_\_\_\_

Y-Intercept \_\_\_\_\_

Y-Intercept \_\_\_\_\_

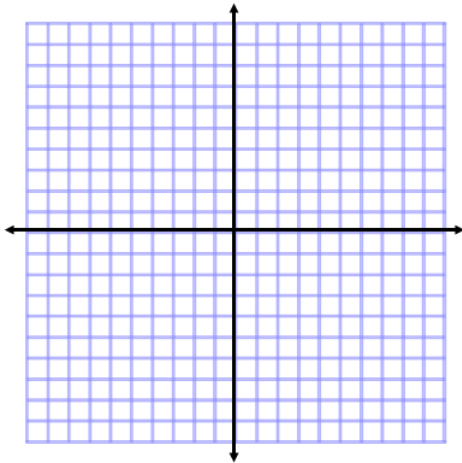
Y-Intercept \_\_\_\_\_

## Graphing and Slope

## Thursday – Homework (Review TEST TOMORROW)

Find five solutions of  $y = -3x + 8$ . Write the solutions as ordered pairs. Graph by plotting ordered pairs.

$x$		$y$	$(x, y)$



What type of slope is this? \_\_\_\_\_

Is this a function? Explain. \_\_\_\_\_

What is the slope (give a #)? \_\_\_\_\_

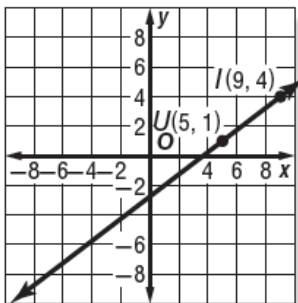
Find the slope of each graph or ordered pairs.

$L(5, 5), M(4, 2)$

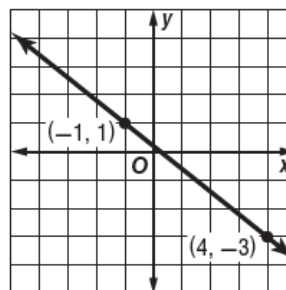
$D(2, 5), E(-6, -3)$

$S(-8, -2), T(1, 4)$

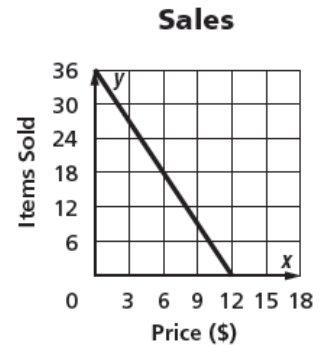
Slope \_\_\_\_\_



Slope \_\_\_\_\_



Slope \_\_\_\_\_



Slope \_\_\_\_\_

Slope \_\_\_\_\_

Slope \_\_\_\_\_

If  $f(x) = 2x - 9$  find the value of each function:

**f(5)**

**f(0)**

**f(-3)**

Determine which relation is *not* a function.

**A**  $\{(3, 2), (2, -3), (-1, 4), (-6, -5)\}$  **C**  $\{(-3.5, 2), (-3, 3), (-4, 4), (4, 4)\}$

**B**  $\{(0, 4), (2, 2), (-2, -2), (0, 8)\}$  **D**  $\{(1, 1), (0.5, -2), (5, 4), (-1, 1)\}$

Which of the following values of  $c$  makes the relation  $\{(0, 1), (1, 2), (2, 2), (c, 4)\}$  a function?

**F** 1

**G** 0

**H** -2

**J** none of these

The relation  $\{(5, 0), (1, 9), (2, 4)\}$  is *not* a function when which ordered pair is added to the set?

**F** (3, 0)

**G** (9, 1)

**H** (-6, -8)

**J** (2, 7)

Determine which relation is a function.

**A**  $\{(3, 0), (0, 3), (5, 4), (0, 1)\}$

**C**  $\{(-1, 0), (0, 3), (-1, 4), (5, 2)\}$

**B**  $\{(0, 0), (0, 3), (0, 4), (0, 1)\}$

**D**  $\{(3, 0), (2, 3), (5, 4), (6, 1)\}$

The relation  $\{(2, 17), (-7, -4), (-4, 3), (0, 3)\}$  is *not* a function when which ordered pair is added to the set?

**A** (-25, 20)

**B** (10, 25)

**C** (2, 6)

**D** (9, 5)

Name the slope and y-intercept of each line below.

$$4x + 3y = 6$$

$$y = \frac{5}{4}x - 1$$

$$y = 5x + 3$$

Is it in form? \_\_\_\_\_

Is it in form? \_\_\_\_\_

Is it in form? \_\_\_\_\_

Slope \_\_\_\_\_

Slope \_\_\_\_\_

Slope \_\_\_\_\_

Y-Intercept \_\_\_\_\_

Y-Intercept \_\_\_\_\_

Y-Intercept \_\_\_\_\_