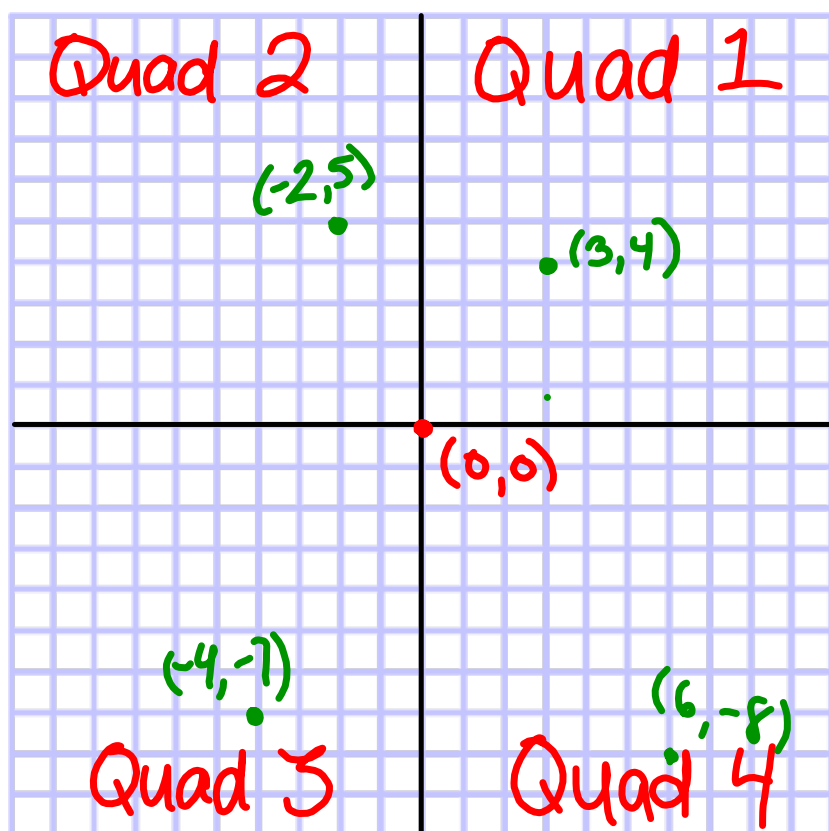


Warm-Up

Dec 4

1. Draw a Cartesian plane. Label the x-axis, y-axis, quadrants, and the origin
2. Plot the given ordered pairs on the graph and identify the quadrants they belong to.
 - > (3, 4)
 - > (-2, 5)
 - > (-4, -7)
 - > (6, -8)



Complete the table of values for this equation:

$$y = 2x + 1.$$

$$x = 2$$

$$y = 2x + 1$$

$$y = 2(2) + 1$$

$$y = 4 + 1$$

$$y = 5$$

$$x = 4$$

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

$$y = 8 + 1$$

$$y = 9$$

x	y
2	5
4	9
6	13
8	17

Blue annotations: Curved arrows between rows indicate a constant increase of +4 in the y-values.

(x, y)
(2, 5)

$$y = 2(6) + 1$$

$$y = 12 + 1$$

$$y = 13$$

coordinates

(2, 5)

(4, 9)

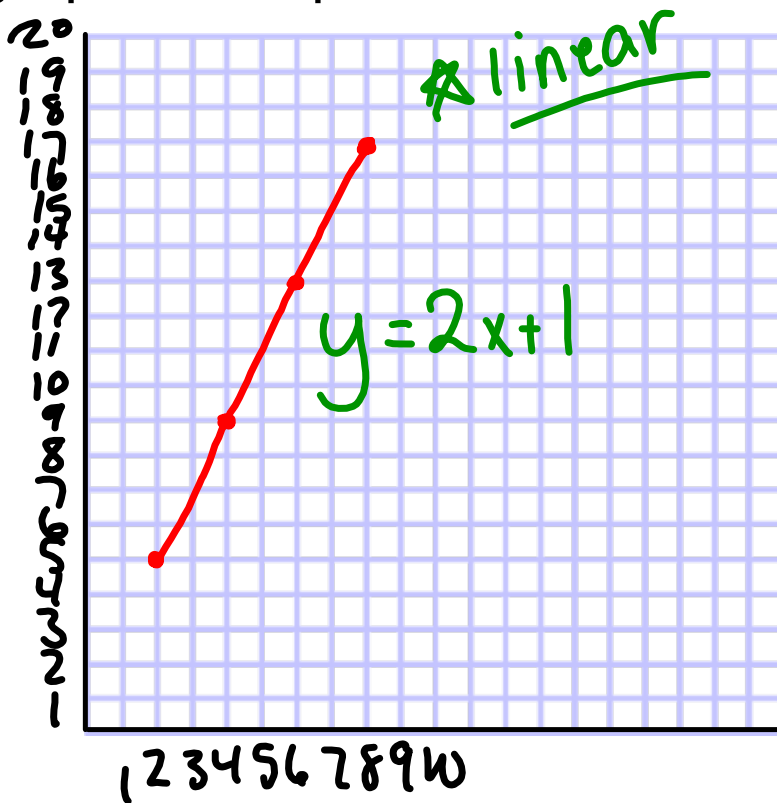
(6, 13)

(8, 17)

* connect

→ should be
a straight
line

Now graph those pairs!



(2, 5)
(4, 9)
(6, 13)
(8, 17)

what would we call that line????

What is the pattern in this table???

x	y
1	2
2	5
3	8
4	11

+1 ↷ *+3*

When x increases by 1, y increases by 3

Find the value of y when $x = 9$:



$$y = 3x + 12$$

$$y = 3(9) + 12$$

$$y = 27 + 12$$

$$y = 39$$

Snow
Day

yes	no
	
$\frac{14 \div 2}{22 \div 2} = \frac{7}{11}$	$\frac{8 \div 2}{22 \div 2} = \frac{4}{11}$

$$\frac{7}{11} = 0.63$$

$$0.63 \times 100$$

63%

Think Snow
Day

$$\frac{4}{11} = 0.36$$

$$0.36 \times 100$$

36%

Think NO snow
day