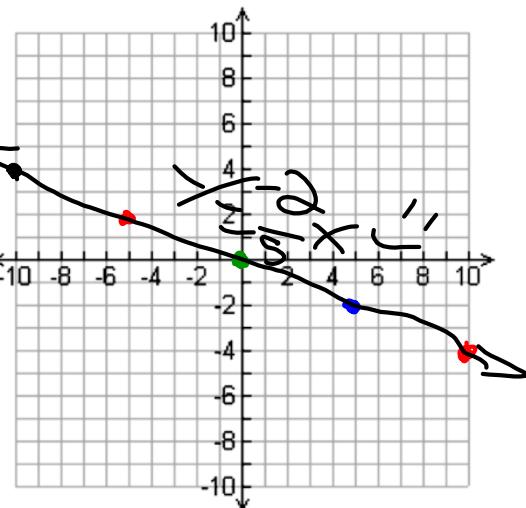


$$y = mx + b$$

1) $y = -\frac{2}{5}x$

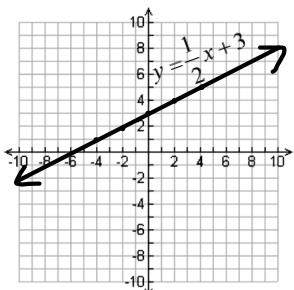
X	$y = -\frac{2}{5}x$	Y
-10	$y = -\frac{2}{5}(-10)$	4
-5	$y = -\frac{2}{5}(-5)$	2
0	$y = -\frac{2}{5}(0)$	0
5	$y = -\frac{2}{5}(5)$	-2
10	$y = -\frac{2}{5}(10)$	-4



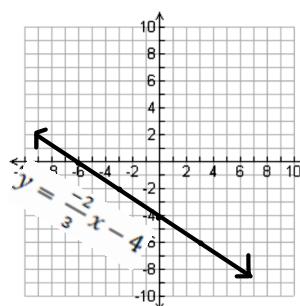
Oct 16-1:22 PM

Homework Answers

1)



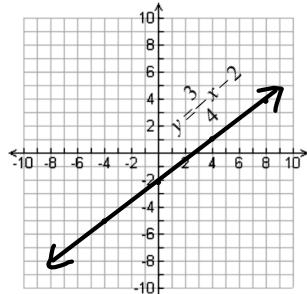
2)



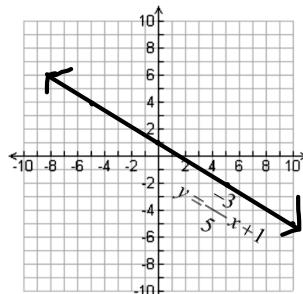
$$y = 3x + 1$$

$$\frac{1}{3}x + 1$$

3)



4)



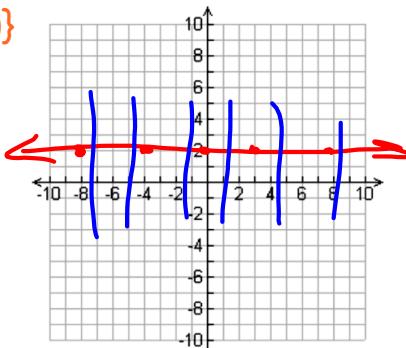
Oct 16-1:23 PM

Plot the following Relations, and connect the dots

1) $\{(-8, 2), (-4, 2), (0, 2), (4, 2), (8, 2)\}$

Horizontal Line

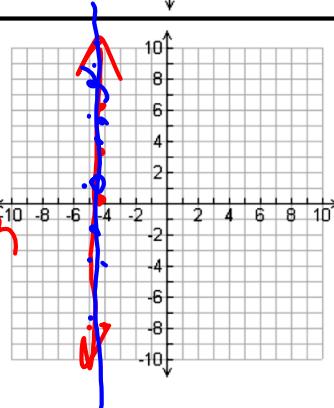
Function



2) $\{(-4, -8), (-4, 0), (-4, 2), (-4, 6)\}$

Vertical

No Function



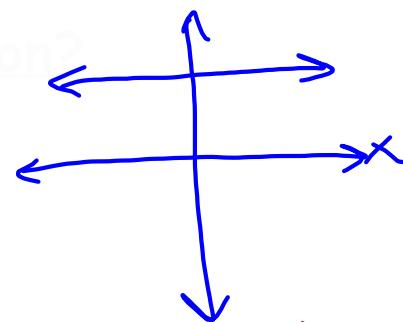
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Horizontal and Vertical Lines

Horizontal Lines

1) Parallel to the x-axis

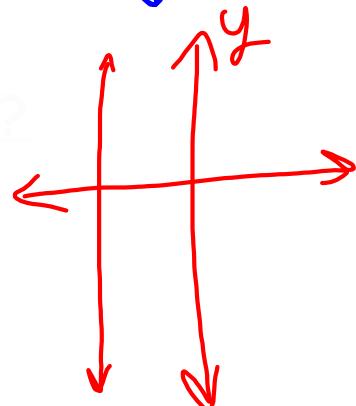
2) Occur when x-value changes,
and y-value stays the same



Vertical Lines

1) Parallel to the y-axis

2) Occur when x-value stays the same
and y-value changes



Oct 16-1:44 PM

Horizontal and Vertical Lines

Horizontal Lines

May see it in form $y = 2$, $y = -2$, $y = 0$
 \uparrow
 x -axis

Just think, "y has to be that number"

but x can be anything"

Vertical Lines

May see it in form $x = 2$, $x = -2$, $x = 0$
 \uparrow
 y -axis

Just think, "x has to be that number"

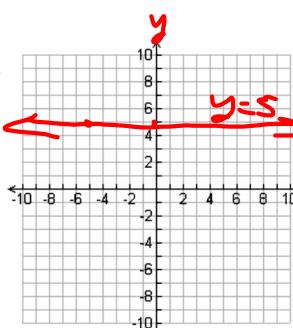
but y can be anything"

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Graph and Label

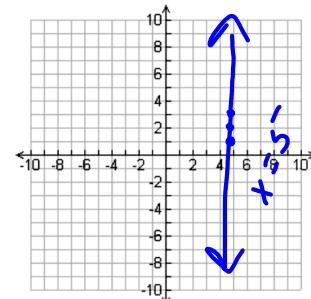
$(0, 5)$, $(-5, 5)$...

1) $y = 5$

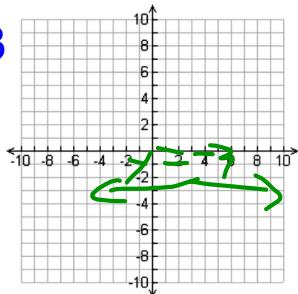


2) $x = 5$

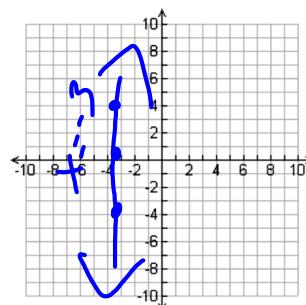
X	Y
5	1
5	2
5	3



3) $y = -3$



4) $x = -3$



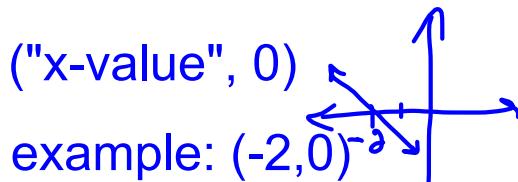
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x-intercept:

- point where the graph crosses the x-axis

- Expressed in the form ("x-value", 0)

$$y = 0$$

**y-intercept:**

- point where the graph crosses the y-axis

- Expressed in the form (0, "y-value")

$$x = 0$$

example: (0, -2)

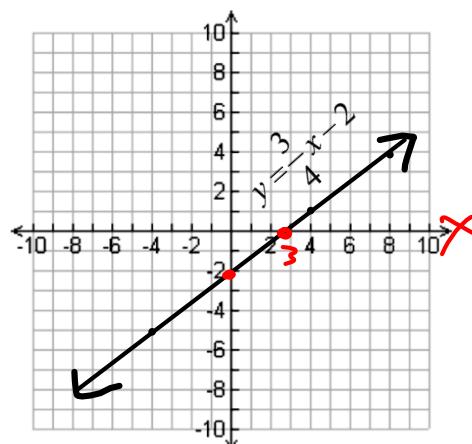
Oct 16-2:07 PM

From this Graph:

x-intercept? $(3, 0)$

y-intercept? $(0, -2)$

#3 From Homework

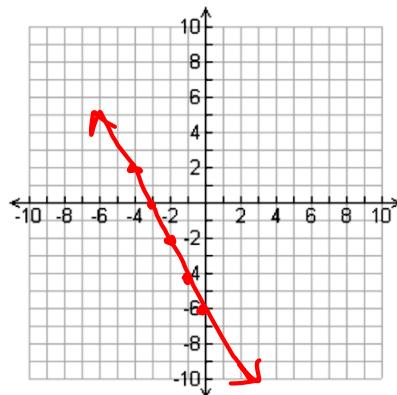


Oct 16-2:07 PM

1) Graph points and connect with line

2) Find the x and y intercepts

X	Y
-4	2
-3	0
-2	-2
-1	-4
0	-6



x-intercept? $(-3, 0)$
y-intercept? $(0, -6)$

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