

Example 1

$$2x + 4y = 8$$

Let $y = 0$

$$2x + 4y = 8$$

$$2x + 4(0) = 8$$

$$2x + 0 = 8$$

$$\frac{2x}{2} = \frac{8}{2}$$

$$x = 4$$

Let $x = 0$

$$2x + 4y = 8$$

$$2(0) + 4y = 8$$

$$0 + 4y = 8$$

$$\frac{4y}{4} = \frac{8}{4}$$

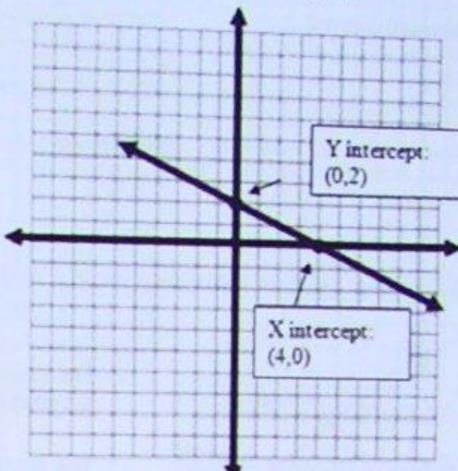
$$y = 2$$

The x-intercept is:
(4, 0)

The y-intercept is:
(0, 2)

The x-intercept is:
(4, 0)

The y-intercept is:
(0, 2)



You can also represent the x and y intercepts in a table.

x	y
4	0
0	2

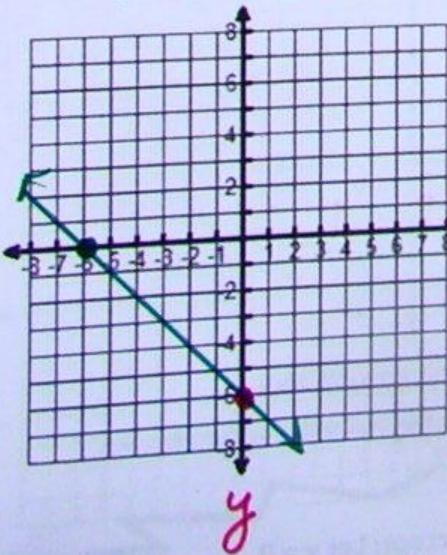
(x, y)

$$6x + 0 = 24$$

Use the x and y intercepts to graph the equations.

1) $x + y = -6$
 $0 + y = -6$
 y-intercept: (0, -6)

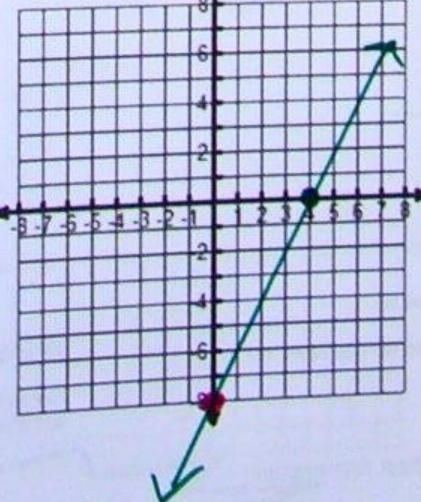
x-intercept: (-6, 0)
 $x + 0 = -6$



2) $6x - 3y = 24$
 $0 - 3y = 24$

y-int
x-int

x	y
0	-8
4	0



3) $-2x + 0 = -8$
 $0 + y = -8$
 y-intercept: (0, -8)

x-intercept: (4, 0)

