

Day 5 – Finding x & y intercepts – Notes

X-intercepts

Written as $(a, 0)$

The value of the y-coordinate is always 0.

Y-intercepts

Written as $(0, b)$

The value of the x-coordinate is always 0.

Practice: Find the x and y intercepts of each equation. Then graph.

a. $2x - 5y = 10$

x-intercept: $y = 0$

$$2x - 5(0) = 10$$

$$2x = 10$$

$$x = 5$$

$$(5, 0)$$

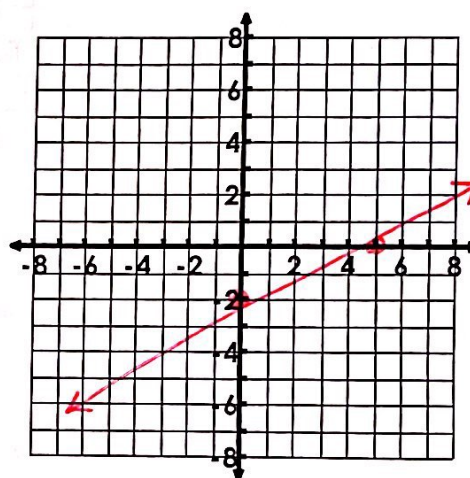
y-intercept: $x = 0$

$$2(0) - 5y = 10$$

$$-5y = 10$$

$$y = -2$$

$$(0, -2)$$



b. $3x + 6y = -18$

x-intercept: $y = 0$

$$3x + 6(0) = -18$$

$$3x = -18$$

$$x = -6$$

$$(-6, 0)$$

y-intercept: $x = 0$

$$3(0) + 6y = -18$$

$$6y = -18$$

$$y = -3$$

$$(0, -3)$$

