

Day 5: Finding x & y intercepts - Practice

Directions: Calculate the x & y intercepts and graph. Then solve for y and check the equation in slope intercept form matches your graph.

1. $5x - 2y = -10$

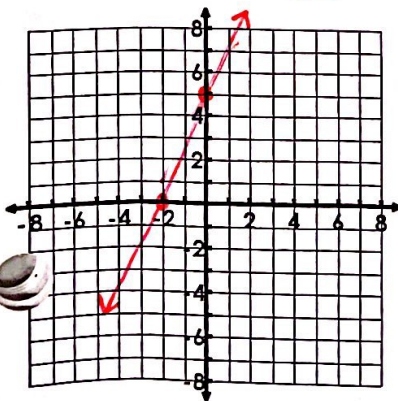
2. $-10x + 15y = 60$

3. $7x - 2y = -14$

<p>X-intercept: $y = 0$ $5x - 2(0) = -10$ $5x = -10$ $x = -2$ $(-2, 0)$</p>	<p>X-intercept: $y = 0$ $-10x + 15(0) = 60$ $-10x = 60$ $x = -6$ $(-6, 0)$</p>	<p>X-intercept: $y = 0$ $7x - 2(0) = -14$ $7x = -14$ $x = -2$ $(-2, 0)$</p>
<p>Y-intercept: $x = 0$ $5(0) - 2y = -10$ $-2y = -10$ $y = 5$ $(0, 5)$</p>	<p>Y-intercept: $x = 0$ $-10(0) + 15y = 60$ $15y = 60$ $y = 4$ $(0, 4)$</p>	<p>Y-intercept: $x = 0$ $7(0) - 2y = -14$ $-2y = -14$ $y = 7$ $(0, 7)$</p>
<p>Slope Intercept Form: $5x - 2y = -10$ $\frac{5x - 2y}{-2} = \frac{-10}{-2}$ $-\frac{2y}{2} = \frac{-5x - 10}{2}$ $y = \frac{5}{2}x + 5$</p>	<p>Slope Intercept Form: $-10x + 15y = 60$ $\frac{-10x + 15y}{15} = \frac{60}{15}$ $\frac{15y}{15} = \frac{10x + 60}{15}$ $y = \frac{2}{3}x + 4$</p>	<p>Slope Intercept Form: $7x - 2y = -14$ $\frac{7x - 2y}{-2} = \frac{-14}{-2}$ $-\frac{2y}{2} = \frac{-7x - 14}{2}$ $y = \frac{7}{2}x + 7$</p>

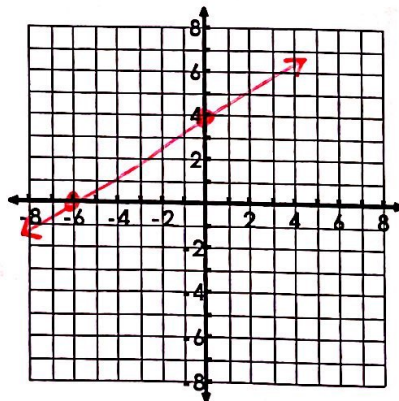
Slope Int Form: $y = \frac{5}{2}x + 5$

x-int: $(-2, 0)$ y-int: $(0, 5)$



Slope Int Form: $y = \frac{2}{3}x + 4$

x-int: $(-6, 0)$ y-int: $(0, 4)$



Slope Int Form: $y = \frac{7}{2}x + 7$

x-int: $(-2, 0)$ y-int: $(0, 7)$

