
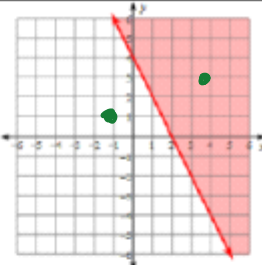
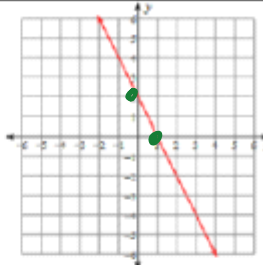
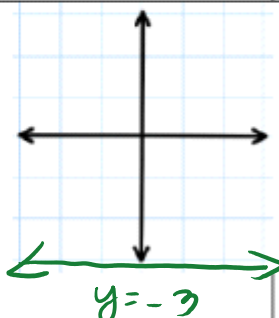


2B. Graphing Linear Functions pages 9-10

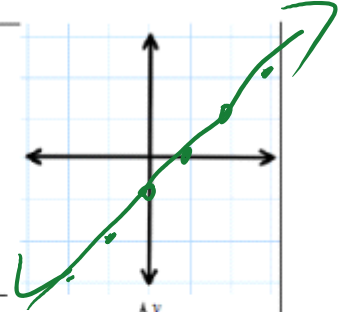
Algebra 1: Graphing Linear Functions Assignment		
<p>1. Find the rate of change given the two points: (1, -2) and (3, -5)</p> $m = \frac{-5 - (-2)}{3 - 1} = \boxed{\frac{-3}{2}}$	<p>2. What is the slope and y-intercept of the equation? $y = -3x + 2$</p> <p>Slope = -3 y-int. = 2</p>	
<p>3. Name a point that is NOT a solution to the graph to the right. Name a point that is a solution to the graph to the right.</p> <p>NOT (-1, 1) Sol'n (4, 3)</p> 	<p>4. Name the x-intercept and the y-intercept.</p> <p>X-int = 1 y-int = 2</p> 	
<p>5. Sketch a graph of: $y = -3$</p> 	<p>6. Write an equation that has a y-intercept of -2 and a slope of -3?</p> <p>$y = -3x - 2$</p>	
<p>7. Rewrite from Standard form to Slope - Intercept Form. $4x + y = -2$</p> <p>$-4x \quad -4x$</p> <p>$y = -4x - 2$</p>	<p>8. Which pair of points has the slope of: $-\frac{3}{4}$?</p> <p>(-4, 5) and (0, 2) OR (2, 5) and (-2, 2)</p> <p>$m = \frac{2 - 5}{0 - (-4)} = \frac{-3}{4} \checkmark$ $m = \frac{2 - 5}{-2 - 2} = \frac{-3}{-4} = \frac{3}{4}$ NO</p>	

9. Write an equation that describes the situation: Josh is trying to save money. He started his saving with \$15 and is able to save \$12 a week.

$$y = 12x + 15$$

10. Sketch a graph of the equation $y = x - 1$.

$$m = 1, b = -1$$



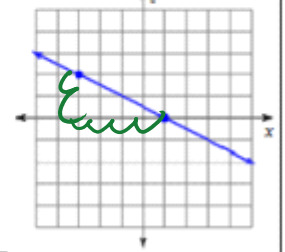
11. What is the x-intercept of the equation:

$$3x + 2y = -6$$

$$X = -2$$

12. What is the slope of the line graphed to the right?

$$m = -\frac{2}{4} = -\frac{1}{2}$$

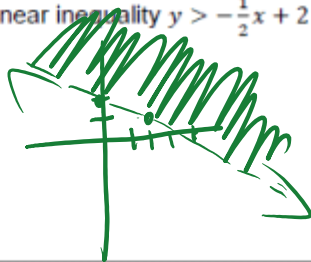


13. Sketch a graph of the linear inequality $y > -\frac{1}{2}x + 2$

$$m = -1/2$$

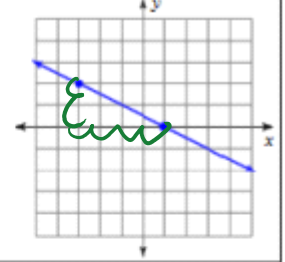
$$b = 2$$

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14. What is the slope of the line graph to the right?

$$m = -\frac{2}{4} = -\frac{1}{2}$$



15. What is the value of r if the slope of the two points $(r, -3)$ and $(4, -2)$ is $\frac{1}{3}$?

$$\frac{1}{3} = \frac{-2 - (-3)}{4 - r}$$

$$\frac{1}{3} = \frac{1}{4 - r}$$

$$4 - r = 3$$

$$-r = -1$$

$$r = 1$$

16. Solve the Equation

$$8x + 6x = 14 + 7x$$

$$14x = 14 + 7x$$

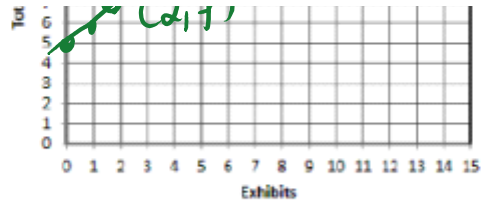
$$-7x \quad -7x$$

$$\frac{7x = 14}{7} = \frac{14}{7}$$

$$X = 2$$

17. The zoo charges \$5 admission fee along with a \$1 charge for each exhibit you visit.

A	B	C
<p>Write the equation based on this situation.</p> $y = x + 5$	<p>Graph the equation you created in part (A).</p> <p style="text-align: center;">Zoo Cost</p>	<p>Explain the point (2,7) in terms of the situation presented.</p> <p>The person visits 2 exhibits and paid \$7 in total.</p>



exhibits and
paid \$7.00