Name:	
Date:	Block:

Unit 5: Linear Functions Review

What you	Things to remember	Examples					
need to know & be able to							
do							
1. Calculate the slope (rate of change)	"slope" $m = \frac{y_2 - y_1}{x_2 - x_1}$ <u>Change in y</u> Change in x	a. Calculate the slope. Then write the equation of the line.	b. Calculate the rate of change between the following points on a line. (0, -4) & (-3, 11)				
		c. Calculate the slope.	d. Calculate the slope.				
2. Calculate the y-intercept	Point where graph crosses y-axis (0, b)	a. Name the y-intercept: x 0 1 3 4 y 8 6 2 0	b. Name the y-intercept: X Y 2 3 5 9 6 11 8 15 10 19				
			10 19				

3. Graph a	y = mx + b	a. Graph: $f(x) = -\frac{2}{3}x + 6$	b. Graph: $-4x + 2y = 12$
linear function	*Always graph the y- intercept first and then use slope to determine next point.		
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		c. Graph x = -3. Name slope & y- intercept	d. Graph y = 4. Name slope & y- intercept.
4. Convert from standard to slope	Slope Intercept: y =mx + b	a. Solve for y: 4x + 2y = 8	b. Determine the slope and y-intercept: 3x - 6y = -12.
intercept form	Standard: Ax + By = C		
5. Write the equation of a line.	y = mx + b	a. Write the equation of the line that has a slope of $-\frac{1}{2}$ and contains the point (4, 6).	b. Write the equation of the line that contains the points (-2, 2) and (2, -6).

c. Write the equation of the line that has $r = 10^{-10}$	d. Write the equation of the line the		
a slope of 5 and y-intercept at (0, 3).			
	× 2 4	-2 0	
e. Write the equation of the line:	f. Write the equation of	the line:	
g. Write the equation of the line:	h. Write the equation of	the line:	