

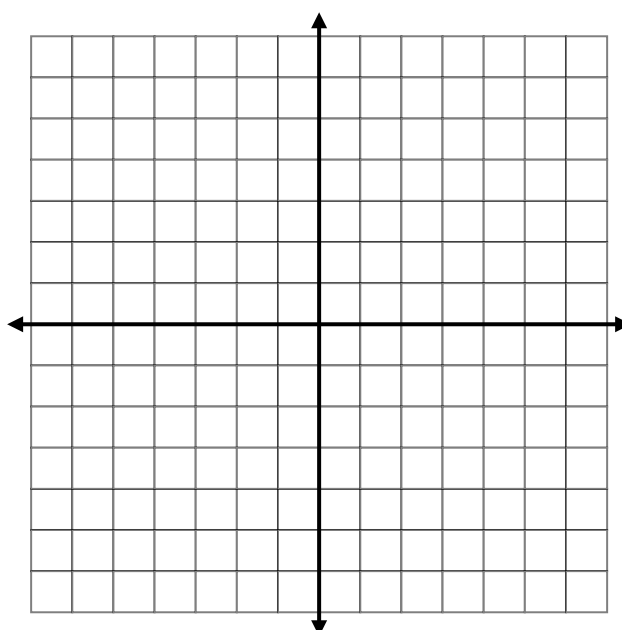
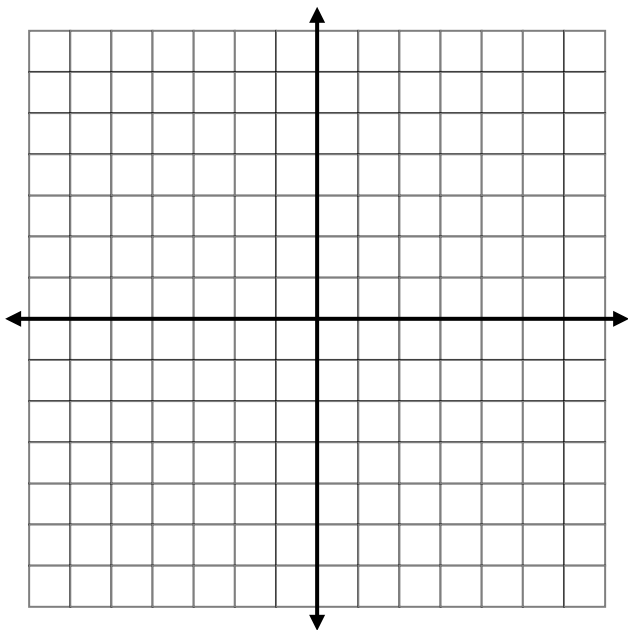
Problem Set #3.2 - Graphing Lines

Name: _____ Class: _____

For 1 – 2, graph the lines on the set of axes provided.

1.) $y = -3x + 7$			
x		y	Coordinate
0		7	
1			
2			
3			
3.) $4y + 2x = 8$			
x		y	Coordinate
-2			
0			
2			
4			

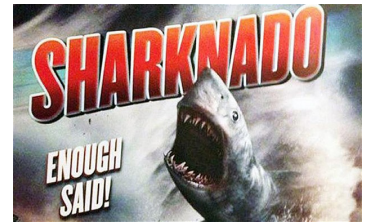
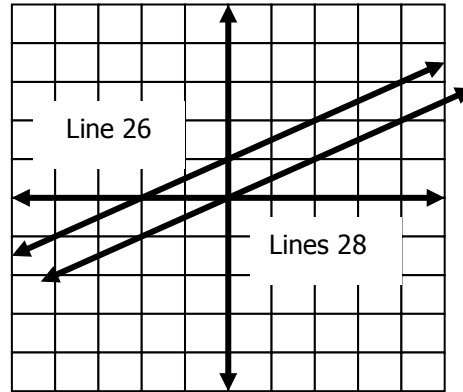
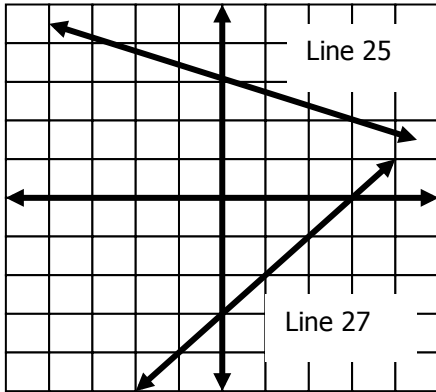
2.) $2y = 10x + 6$			
x		y	Coordinate
-2			
-1			
0			
1			
4.) $2x - 3y = 12$			
x		y	Coordinate
-3			
0			
3			
6			



For 5 – 16, write each equation in slope-intercept form. Then find the slope and the y-intercept. Then graph each line on graph paper showing at least 3 points. There should be six lines per graph.

Color	Equation of the Line	Slope-Intercept Form	Slope	Y-Intercept
	5.) $y = 2x - 4$			
	6.) $y = \frac{3}{2}x + 1$			
	7.) $4y = 4x$			
	8.) $x + 2y = 6$			
	9.) $5x - 4y = 16$			
	10.) $y = 8$			
	11.) $x = -5$			
	12.) $2y - 6x = -10$			
	13.) $y = 7$			
	14.) $y = -\frac{3}{2}x - 9$			
	15.) $2 - 2y = 3x$			
	16.) $6 - 3x = 2y$			

For 17 – 20, write an equation representing the given line.



17.) _____

18.) _____

19.) _____

20.) _____

For 21 – 24, simplify each expression

21.) $(x + 7)^2$

22.) $(3x + 8)(2x - 5)$

23.) $(5x^3 - 3x^2 + 2x - 8)^2$

24.) $(3x - 1)(3 - x) + 5(x^2 + 6) - (x^2 + 5)$