Name:	Date:
Topic:	Class:

Main Ideas/Questions	Notes/Examples	
X- and Y- Intercepts	 The point at which the line intersects the x-axis is called the x-intercept. The point at which the line intersects the y-axis is called the y-intercept. 	
	Example: Identify the x- and y-intercept of the graph shown to the right.	7
Finding Intercepts	To find the x-intercept of an equation:	
Algebraically	> To find the y-intercept of an equation:	
	Example: Find the x - and y -intercept of the equation $y = 3x + 6$. Directions: Find the x - and y -intercept of each equation.	V
Examples		
Examples	Directions: Find the x- and y-intercept of each equation.	
Examples	Directions: Find the x- and y-intercept of each equation. 1. $y = -x + 5$	
Examples	Directions: Find the x- and y-intercept of each equation. 1. $y = -x + 5$ x-int:	
Examples	Directions: Find the x - and y -intercept of each equation. 1. $y = -x + 5$ x -int: y -int:	
Examples	Directions: Find the x- and y-intercept of each equation. 1. $y = -x + 5$ x-int: y-int: y-int:	
Examples	Directions: Find the x- and y-intercept of each equation. 1. $y = -x + 5$ x -int: y-int: 2. $y = \frac{1}{2}x - 8$ x -int:	
Examples	Directions: Find the x- and y-intercept of each equation. 1. $y = -x + 5$ x-int: y-int: y-int:	

4	v	- 32	_	7
4.	1 -	- y	_	4

x-int: _

y-int:

5.
$$3x - 2y = 12$$

x-int:

y-int:

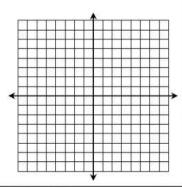
6.
$$8x + 10y = -10$$

x-int:

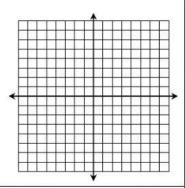
y-int:

Graphing by Intercepts

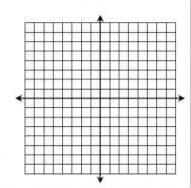
Directions: Find the x- and y-intercept of each equation. Graph the equation using its intercepts. **7.** x + y = 3



8.
$$-4x + 5y = 20$$



9.
$$9x - 15y = 45$$



10. 2x - y = 7

