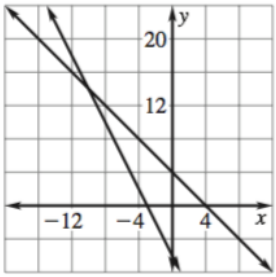
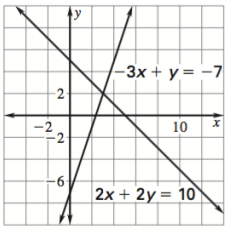
Algebra 1 Name _____

4-1 LinSys: Graphing Date_____ **A#1a**

Goal:	
System of Linear Equations: More than one linear equation	**Solution of a Linear System:** **On a graph:** **Equations:**

Check each point to see if it is a solution to the system of linear equations.

Linear System	Point	Check First Equation	Check Second Equation
1. $2x + y = 3$ $x - 2y = -1$	$(1, 1)$ $x =$ $y =$		
2. $4x + y = -4$ $-x - y = 1$	$(-3, 8)$ $x =$ $y =$		
3. $x - y = 3$ $3x - y = 11$	$(4, 1)$ $x =$ $y =$		
4. 	(,) $x =$ $y =$	$4x + 2y = -12$	$2x + 2y = 8$
5. 		$-3x + y = -7$	$2x + 2y = 10$

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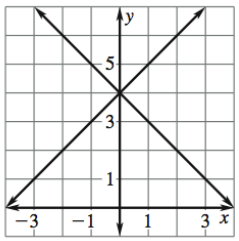
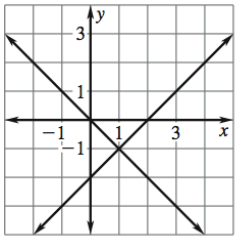
Use the graph to estimate the solution of the linear system. Check your solution algebraically.

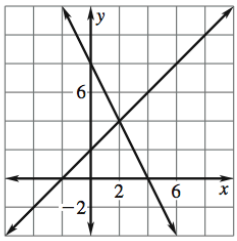
1. $-x + y = 4$
$x + y = 4$



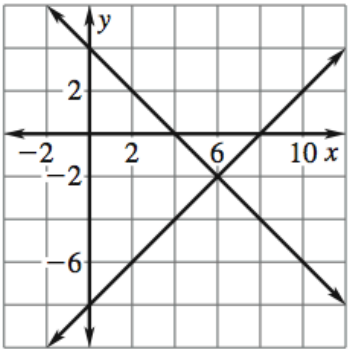
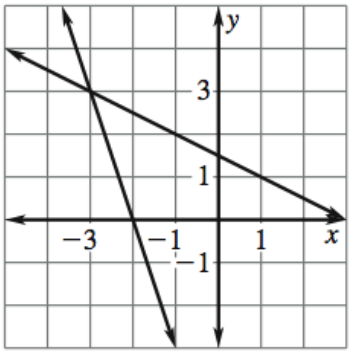
2. $x + y = 0$
$-x + y = -2$



3. $-x + y = 2$
$2x + y = 8$



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



5. $3x + y = -6$
$-x - 2y = -3$