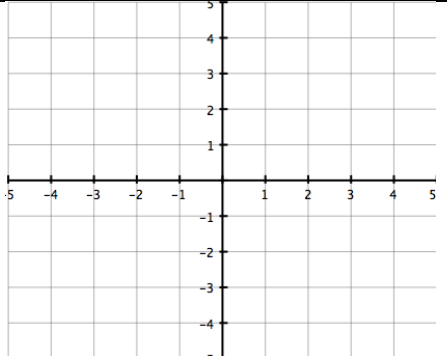
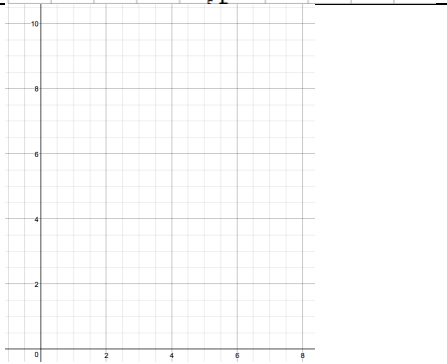
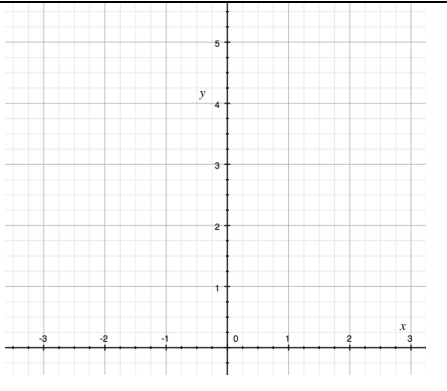
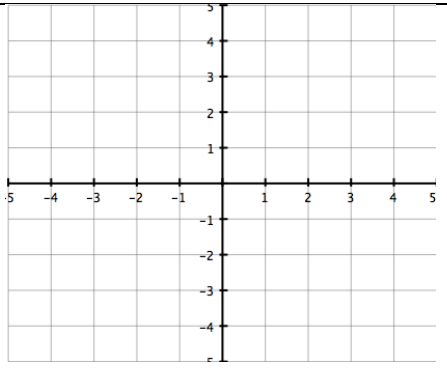


Algebra 1
4-1b LinSys: Graphing

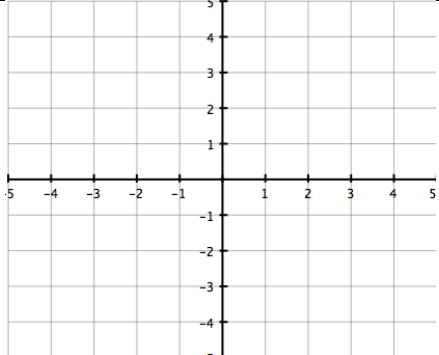
Name _____
 Date _____ **A#1b**

Goal:

Linear System	Graph	Solution/Check
<p>1. $y = -x + 2$ $y = x + 2$</p> <p>$m =$ $m =$ $b =$ $b =$</p>		<p>Solution: (,) y</p>
<p>Try It! $y = \frac{1}{2}x + 4$ $y = -\frac{3}{4}x + 9$</p>		<p>Solution: (,)</p>
<p>2. $x + y = -2$ $2x - 3y = -9$</p>		
<p>Try It! $x - y = 5$ $2x + 3y = 0$</p>		

Algebra 1
4-1b LinSys: Graphing

A#1b

Linear System	Graph	Solution/Check
3. $15x + 5y = 25$ $y = 5 - 3x$		

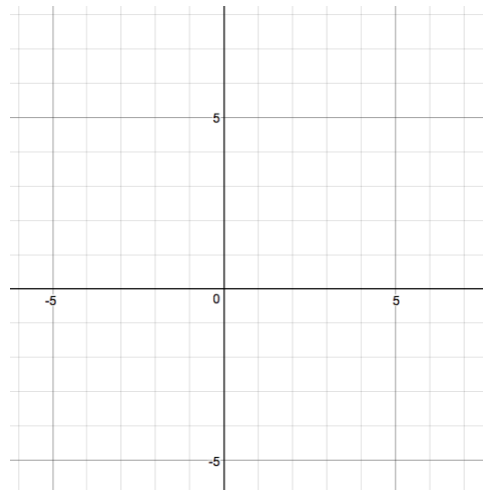
Number of Solutions to a Linear System

1 Solution	No Solution	Infinitely Many Solutions

Try It! What is the solution to the system?

$$y - 2x = 6$$

$$-4x + 2y = 8$$



Algebra 1

4-1b LinSys: Graphing

A#1b

What are you trying to find?		Graph	Solution/Check
<p>Example: Suppose you have \$20 in you bank account. You start saving \$5 each week. Your friend has \$5 in his account and is saving \$10 each week. Assuming neither of you make withdrawals, when will you have the same amount? How much will you have saved?</p>			<p>Solution: (,)</p>
Eq 1	<p>Rate (m) =</p> <p>Initial (b) =</p>		
Eq 2	<p>Rate (m) =</p> <p>Initial (b) =</p>		
<p>Try It! Suppose you have \$55 in you bank account. You start saving \$10 each week. Your friend has \$20 in her account and is saving \$15 each week. When will you and your friend have the same amount in you accounts? How much will you have?</p>			<p>Solution: (,)</p>
Eq 1	<p>Rate (m) =</p> <p>Initial (b) =</p>		
Eq 2	<p>Rate (m) =</p> <p>Initial (b) =</p>		
<p>Try It! You are testing two fertilizers on bamboo plants C and D. Plant C is 5 cm tall and growing at a rate of 3 cm/day. Plant D is 1 cm tall and growing at a rate of 4 cm/day. How many days until they are the same height?</p>			<p>Solution: (,)</p>
Eq 1	<p>Rate (m) =</p> <p>Initial (b) =</p>		
Eq 2	<p>Rate (m) =</p> <p>Initial (b) =</p>		