Algebra 1 4-1b LinSys: Graphing

Name _	
Date _	A#1b

Goal:

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

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Linear System	Graph	Solution/Check
3. 15x+5y=25 y=5-3x		
Nu	mber of Solutions to a Linear Syst	tem
1 Solution	No Solution	Infinitely Many Solutions
Try It! What is the solution	to the system?	
y - 2x = 6		
-4x + 2y = 8		
	-5 0	

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What are you trying to find?		ng to find?	Graph	Solution/Check	
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?		ou bank account. eek. Your friend saving \$10 each you make have the same u have saved?		Solution: (,)	
Eq 1	Rate $(m) =$ Initial $(b) =$				
	Rate (<i>m</i>) =				
Eq 2	Initial $(b) =$				
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?		ou bank account. week. Your friend s saving \$15 each our friend have the ts? How much will		Solution: (,)	
Eq 1	Rate $(m) =$				
	Initial $(b) =$				
Eq 2	$F(m) = \frac{1}{1}$ Initial (b) =				
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? Rate (m) =		izers on bamboo s 5 cm tall and /day. Plant D is 1 rate of 4 cm/day. y are the same		Solution: (,)	
Eq 1	Fate (m) =				
Eq 2	Rate $(m) =$				
	Initial $(b) =$				