Name:		Date:			
Notes Algebra Section 7.1 Pages 427-433				i	
Goal: "You will graph	and solve systems of	linear equations"		3	
<u>Remember:</u>					
A	to a			_ is any	
tha	nt when	in makes the	!		_true.
<u>Vocabulary</u> :					
System of Equations –	two (or more)			with the same	
Solution to a system of	 equations – any equations.		that is a		_ to
The	to a linear eq	uation is where the two	lines		
Decide if the given point	nt is a solution to the	system of equations:			
Ex: $x + y = -2$	F	x: $2x - 3y = 4$		Ex: $6x + 5$	$\delta v = -7$

Ex: $x + y = -2$	Ex: $2x - 3y = 4$	Ex: $6x + 5y = -7$
x + 5y = 2	2x + 8y = 11	x - 2y = 0
(-3, 1)	(5, 2)	(-2, 1)

Solve by graphing:

Ex: Graph the following lines in the same coordinate plane. Identify the solution to the system:

x + 2y = 7 and 3x - 2y = 5



*remember that in order to graph the lines you can use a table, intercepts or slope – intercept. Choose the most appropriate method when graphing.

*Hint: Often times if you graph multiple (more than two points) you will be able to see the solution more easily.

What is the solution to the system? How do you know?

Solve each of the following systems by graphing. Be sure to state the solution.



Ex: The parks and rec. department offers a seasons pass for \$90. With a pass you pay \$4 per session to use the tennis courts and without the pass you pay \$13 per session.

a. Write a system of linear equations to describe the situation. (The total cost with and without a based on the number of times you use the tennis courts)



Ex: You sell earrings for \$5 and necklaces for \$10 and want to make \$500. You also want to sell 60 items total. Write a system of equations to describe the total number of necklaces and earrings sold.



Ex: A business rents inline skates for \$15 per day and bicycles for \$30 per day. During one day the business does a total of 25 rentals and makes \$450. Write and solve a system of equations by graphing to find the number of in-line skates and bicycles rented.

