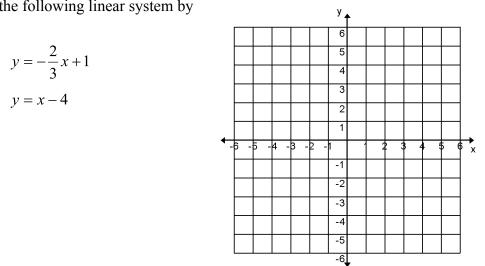
Name:_____

<u>Unit #3 Linear Systems – Practice Test</u>

1. Solve the following linear system by

<u>graphing.</u>



2. Solve the following linear system using the **<u>substitution method</u>**.

	3x - y = 5		-5x + y = 2
a.	x = -3y + 5	b.	3x - y = 10

3. Use the <u>elimination method</u> to solve the following linear system.

	-7x + 6y = 20		-2x + 3y = 8
a.	7x - 2y = -16	b.	3x - 7y = 3

4. Solve the following 2 linear systems using whichever method you prefer!

a.	-2x + 3y = -13	b.	3x = 9y - 15
	-2x + 9y = -31		-y + 2x = 0

5. On a particular evening, 122 students and adults go to a show. Student tickets costs \$4 and adult tickets cost \$7. If ticket sales are \$614, how many students and adults go to the show?

Let x represent the number of student tickets sold. Let y represent the number of adult tickets sold.

- a. Create <u>2</u> equations.
- b. Solve the linear system (using whichever method you want!).

- c. Concluding statement.
- 6. Josh plays hockey. He earns 2 point for every goal he scores and 1 point for every assist. This season he had a total of 59 goals and assists and he earned 80 points. How many goals and assists did Josh get in the season?

Let x represent the number of goals Josh scored. Let y represent the number of assists Josh got.

- a. Create <u>2</u> equations.
- b. Solve the linear system using whichever method you prefer.

c. Concluding statement.