

EXAM 2/CHAPTER 3-4.4

60 POINTS POSSIBLE

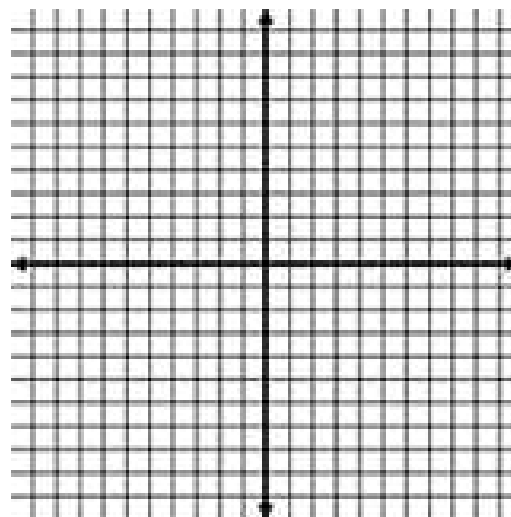
NAME \_\_\_\_\_

LEAVE ALL ANSWERS EXACT UNLESS THE PROBLEM INDICATES OTHERWISE

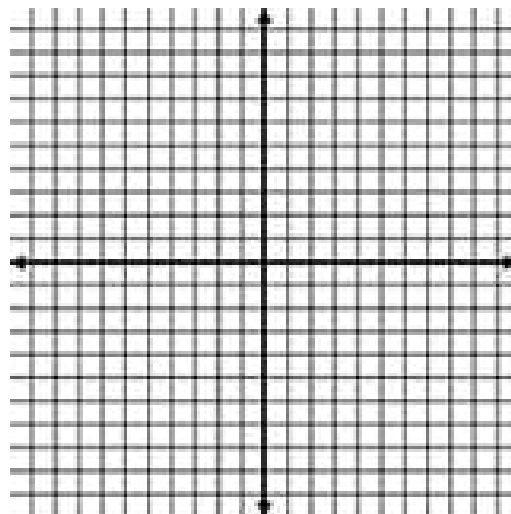
SHOW ALL WORK IN ORDER TO EARN FULL CREDIT

**LABEL ALL AXES AND WRITE IN THE SCALE**

1. (6 POINTS) Graph the equation  $x + 4y = 6$  using the method of your choice. **LABEL AXES AND WRITE IN THE SCALE!**



2. (6 POINTS) Graph  $x - 3 = 0$  using any method. **LABEL AXES AND WRITE IN THE SCALE!**



(8 POINTS) Write an equation for the line which is parallel to  $y = 5x - 8$  and passes through the point  $(1, -2)$ .

Point-slope form: \_\_\_\_\_

Slope-intercept form: \_\_\_\_\_

3. (4 POINTS) Determine whether the given ordered pair is a solution of the system.

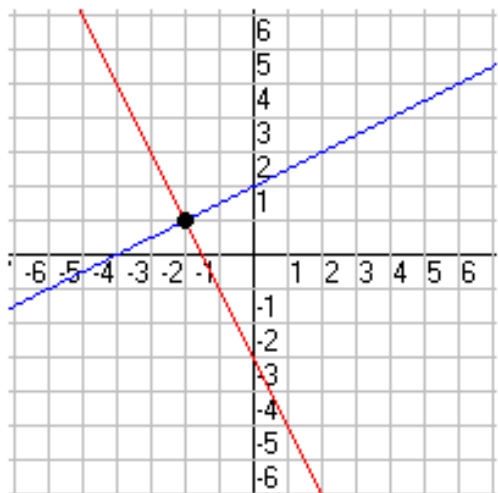
$(-1, 7)$

$$6x - 2y = -8$$

$$3x + y = 10$$

Circle one:      yes      no

4. (6 POINTS) Use the graph below to find the solution of the system of linear equations.



Solution: \_\_\_\_\_

This system is (circle one):      Consistent      Inconsistent

The equations are (circle one):      Dependent      Independent

5. (16 POINTS, 8 POINTS EACH) Solve the following systems of linear equations by the substitution or addition method. Use set notation to express solution sets.

a.

$$x + y = -4$$

$$7x - 2y = 1$$

Solution: \_\_\_\_\_

This system is (circle one):      Consistent                      Inconsistent

The equations are (circle one):      Dependent                      Independent

b.

$$3x + y = -2$$

$$9x + 3y = -6$$

Solution: \_\_\_\_\_

This system is (circle one):      Consistent                      Inconsistent

The equations are (circle one):      Dependent                      Independent

