Math 8CP

Chapter 5 Review

Complete this assignment in your spiral (warm-up section) showing all work ©

Solve each system by graphing.

1)
$$y = 2x + 6$$

$$y = -x - 3$$

$$(-3,0)$$

2)
$$3x + y = 3$$
 $y = -3x + 3$ 3) $3x + 2y = 12$ $y = \frac{2}{2}x + 6$
 $2y = -6x + 8$ $y = -3x + 4$ $3x + 2y = 6$
 $y = -\frac{3}{2}x + 3$

Solve each system using the substitution method.

4)
$$y = 3x + 2$$
 $6x - 2y = -4$

5)
$$2x + 7y = 3$$
 $(5,-1)$ 6) $x + 3y = 12$ $(9,1)$ $x - y = 8$

Solve each system using the elimination method.

7)
$$2x - 3y = -11$$
 $(-1,3)$ $x + 3y = 8$

$$2x - 3y = -11 (-1,3)$$

$$x + 3y = 8$$

$$4x + y = -9$$

$$4x + 2y = -10 (-2,1)$$

$$2x + 2y = -10 (0,1)$$

$$6x + 2y = -10$$
 $2x + 2y = -10$

Use any method to solve.

10)
$$-4c + 2d = 6$$
 $-4c + d = 9$
 $-4c + d = 9$
 $-4c + d = 9$
 $-9x = 2y = -2x = 22$
 $-9x = 2y = -22$

11)
$$x + y = -3$$
 $(-1, -2)$

$$2y = -5x + 6$$
 $-9x - 2y = -22$
 $(4, -7)$

Write TWO equations with TWO variables each. Solve (don't forget sentence answers).

13) The sum of two numbers is 41. The difference of the numbers is 5. What are the 1/8:23/ numbers?

14) Four times a number minus three times another number is 12. Two times the first number added to three times the second number is 6. Find the numbers.

**15) A sightseeing boat charges \$5 for children and \$8 for adults. The boat has 71 people and makes a total of \$439. How many adults and children are on the boat?