

Name _____

Date _____

Homework #23 (Show all work)

Period _____

1) Solve the following systems of equations for x and y :

$$2x - y = 3$$

$$3x + y = 12$$

2) What is the solution to the following system of equations?

$$3x - 2y = 0$$

$$4x + 2y = 14$$

3) Solve the following system of equations algebraically.

$$3p + q = 7$$

$$2p - 2q = -6$$

4) Solve the following systems of equations for x and y :

$$6x + 4y = 42$$

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

5) The sum of two numbers is 25 and their difference is 15. What are the two numbers?

6) The sum of two numbers 181 and their difference is 29. What are the two numbers?

7) Three bags of potatoes and four cases of corn cost \$40. Five bags of potatoes and two cases of corn cost \$34. Find the cost of one bag of potatoes and the cost of one case of corn.