Algebra I Name_____

WS 6-3 *Solving Systems by Elimination*

Solve each system using elimination. State the solution and type of system.

1.
$$x + y = 2$$
$$x - y = 4$$

2.
$$x + 2y = 3$$
$$x - y = 6$$

3.
$$2x - y = 4$$
$$3x - y = 2$$

4.
$$x + 3y = 3$$
$$2x + 3y = 5$$

5.
$$x - 2y = 3$$
$$3x - y = 2$$

6.
$$2x - 4y = -6$$
$$x - y = -1$$

7.
$$3x - 2y = -3$$
$$-9x + 6y = 9$$

8.
$$-4x - 2y = 20$$
$$2x + y = 19$$

9. A student bought 3 boxes of pencils and 2 boxes of pens for $6. He then bought 2 boxes of pencils and 4 boxes of pens for $8. Find the cost of each box of pencils and each box of pens.

a. Define two variables.

b. Write a system of equations and solve using elimination.

c. Answer:_____

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10. A farm raises a total of 220 chickens and pigs. The number of legs of the stock in the farm totals 520. How many chickens and pigs are at the farm?

a. Define two variables.

b. Write a system of equations and solve using elimination.

c. Answer:_____

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