NAME: _____

UNIT 3 LESSON 5   SYSTEM OF EQUATIONS – ELIMINATION AND WORD PROBLEMS

Directions: Solve the system of equations.

1) $3x - y = 14$

   $x - y = 2$

2) $3x - 2y = 0$

   $4x + 2y = 14$

3) $2x + y = 0$

   $5x + 3y = 2$

4) $3x + y = 5$

   $5x - 4y = -3$

5) $4x - 7y = 3$

   $x - 7y = -15$

6) $2x + 6y = 18$

   $x + 3y = 9$

7) At H & M, Andre bought 8 shirts and 2 pairs of pants for $69 and Isaac bought 4 shirts and 6 pairs of pants and spent $107. Write and solve a system of equations to model this situation. What is the cost of a shirt? What is the cost of a pair of pants?

8) Joey decides to empty his piggy bank and count his money. His bank is filled with only nickels and dimes. Joey counted a total of 45 coins that added up to $3.15. How many nickels and how many dimes does Joey have in his piggy bank? Write and solve a system of equations to model this situation.

9) Glowing Candles is hosting a one-day sale on Saturday. The first promotion allows customers to purchase six small candles and two large candles for $28. Another promotion allows customers to purchase two small candles and six large candles for $36. What is the promotional price of one small candle and one large candle? Write and solve a system of equations to model this situation.

10) Jimmy went to the local convenient store two days this week on his way home from school. On Tuesday he bought two candy bars and one soda and spent $3.26. On Thursday he bought one candy bar and two sodas and spent $2.67. Find the cost of one candy bar and the cost of one soda. Write and solve a system of equations to model this situation.