## Algebra 2 Bellwork Fri., Oct. 16, 2015

For 1 to 3, solve each system of equations using either Substitution or Elimination. You can't use the same method on all three. Give your answer as an ordered pair.

$$3c - 7d = -31$$

$$4c - 7d = -39$$

$$5J - 8K = 68$$

$$3J - 7K = 54$$

$$5V - 3W = -12$$

$$8V + 4W = 60$$

4. Each jar holds 16 ounces and each can holds 12 ounces. There are a total of 20 containers that hold a total of 268 ounces. Write and solve a system of equations to find the number of jars and cans that were used.

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$$3c - 7d = -31$$

$$- 4c - 7d = -39$$

$$- C = 8$$

$$C = -8$$

$$3(5J - 8K = 68)$$
  
 $5(3J - 7K = 54)$ 

$$3J - 7(-6) = 5^{\circ}$$
  
 $3J + 42 = 54 \rightarrow 3J = 12$ 

$$5V - 3W = -12$$

$$8V + 4W = 60$$

$$5V - 3(15 - 2V) = -12$$

$$5V - 3(15 21)$$
  
 $5V - 45 + 6V = -12$   
 $11V - 45 = -12$ 

4. Each jar holds 16 ounces and each can holds 12 ounces. There are a total of 20 containers that hold a total of 268 ounces. Write and solve a system of equations to find the number of jars and cans that were used.

$$14i + 12c = 268$$
  $16i + 12c = 266$   $12(i + c = 20) - 3 - 12i + 12c = 240$