Bellwork Thur., Oct. 2, 2014 Algebra 2

For 1 to 4, solve each system of equations. Use each method twice. Give your answer as an ordered pair.

$$y = x - 9$$

$$2x - 3y = 20$$

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

$$4c + 7d = -25$$

$$5J - 8K = 68$$

$$3J - 7K = 54$$

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

 $8V + 4W = 60$

5. 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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pair.

$$y = x - 9$$

$$2x - 3y = 9$$

$$2x - 3y = 20$$

$$2x-3(x-9)=20$$

$$- x + 27 = 20$$

3. ELIMINATION

$$2(5J - 8K = 68)$$
 (5J - 24K = 204

$$5(3J-7K=54) - 15J-35k=270$$

Tjars 9 cans

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

$$+4c + 7d = -25$$

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

$$8V + 4W = 60$$

$$8V + 4W = 60$$

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

$$8V + 4W = 60 \implies 4W = 60 - 8V$$

$$W = 15 - 2V$$

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

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

 $W = 15 - 2(3) = 9$ $5V - 45 + 60V = -12$

5. Each jar holds 16 ounces and each can holds 12 ounces. There are a total of 20 containers that hold -5 4 a total of 268 ounces. Write and solve a system of equations to find the number of jars and cans that

= 12 were used.

$$J = \# jars$$
 $12(C+J=20) \rightarrow 12C+12J=240$
 $C = \# cans$ $12C+16J=268$ $-12C+16J=268$
 $-4J=-28$

$$-4J = -28$$