Algebra 2

Bellwork

Tue, Oct 7, 2014

Solve each system of equations. Don't use the same method twice. Write your answers as an ordered pair.

$$7a + 4b = 36$$

$$10a - 6b = 110$$

$$12x - 3y = -36$$

$$5x + 2y = -15$$

- 3. The perimeter of a rectangle is 58 cm. The width is five more than twice the length. Write and solve a system of equations to find the dimensions of the rectangle.
- 4. A customer brought two silver alloys to the jewelry shop to sell. The total weight of these two alloys was 75 grams. One of the alloys had 12% pure silver and the other one had 20% pure silver. When the alloys were melted down there was a total of 11.44 grams of pure silver. Write and solve a system of equations to find the number of grams of each alloy the customer brought.

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$$3(7a+4b=36)$$

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  $2|a + 12b = 108$ 

$$7(8) + 4b = 36$$

$$7(6) + 4b = 36$$
 $56 + 4b = 36$ 

$$2x - 3y = -36 \longrightarrow$$

$$5x + 2y = -15$$

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$$5x + 24 + 6x = -15$$
 $13x = -39$ 

$$y = 12 + 4(-3)$$

$$y = 12 + -12$$
 $(y = 0)$ 

1. 3(7a+4b=36) 2|a+|2b=108 2(3x-3y=-36) 3(7a+4b=36) 2(3x-3y=-36) 2(3xsolve a system of equations to find the dimensions of the rectangle.

W = 2L+5 W = 2L+5

4. A customer brought two silver alloys to the jewelry shop to sell. The total weight of these two X=#g of alloys was 75 grams. One of the alloys had 12% pure silver and the other one had 20% pure silver. When the alloys were melted down there was a total of 11.44 grains of pure since.  $y = \frac{12}{3} = \frac{1}{3} = \frac{1}{3$ When the alloys were melted down there was a total of 11.44 grams of pure silver. Write and solve a