

Step 1: Rewrite each equation in order to have opposite terms!

$$\begin{array}{rcl} 2 [3x + 3y = 11.25] & = & 6x + 6y = 22.50 \\ -3 [4x + 2y = 10] & = & -12x - 6y = -30 \end{array}$$

$$\begin{array}{r} 6x + 6y = 22.50 \\ -12x - 6y = -30 \\ \hline \end{array}$$

$$\frac{-6x}{-6} = \frac{-7.50}{-6}$$

$$x = 1.25$$

Step 2: Now substitute the value for x (1.25) back into one of the equations and solve for y.

$$4x + 2y = 10$$

$$4(1.25) + 2y = 10$$

$$5 + 2y = 10$$

$$5 - 5 + 2y = 10 - 5$$

$$\frac{2y}{2} = \frac{5}{2}$$

$$y = 2.5$$

Substitute.

Simplify.

Subtract 5 from both sides.

Divide by 2.

$$y = 2.5$$

(1.25, 2.5) is the solution to this system of equations.

Step 3: Check:

$$3x + 3y = 11.25$$

$$3(1.25) + 3(2.5) = 11.25$$

$$3.75 + 7.5 = 11.25 \quad \text{☺}$$

$$4x + 2y = 10$$

$$4(1.25) + 2(2.5) = 10$$

$$5 + 5 = 10 \quad \text{☺}$$

Problem Situations With System Of Equations 2012

Tesc

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battle of Iwo Jima Appendix A Some simple facts concerning functions of several variables Appendix B Sequences and series
Answers to odd numbered exercises

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