

Solving 2 X 2 System Assignment Examples

$$2) (5x + y) = 9 \quad (-2)$$

$$10x - 7y = -18$$

$$\underline{-10x - 2y = -18}$$

$$\underline{-9y = -36}$$

$$y = 4$$

$$5(1) + 4 = 9 \quad \checkmark$$

$$10(1) - 7(4) = -18 \quad \checkmark$$

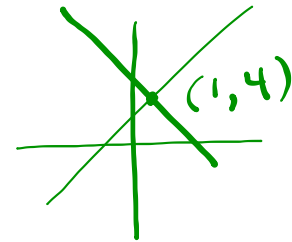
Elimination

$$5x + 4 = 9$$

$$5x = 5$$

$$x = 1$$

$$(1, 4)$$



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$$6) -5x + y = -3 \quad 0 - 3 = -3 \quad x = \underline{\quad}$$

$$3x - 8y = 24 \quad 0 + 24 = 24 \quad y = \underline{\quad}$$

Substitution

$$-5x + y = -3$$

$$y = 5x - 3$$

$$y = 5(0) - 3$$

$$y = -3$$

$$3x - 8(5x - 3) = 24$$

$$3x - 40x + 24 = 24$$

$$-37x + 24 = 24$$

$$\underline{-37x = 0}$$

$$\underline{-37 \quad -37}$$

$$x = 0$$

$$(0, -3)$$

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