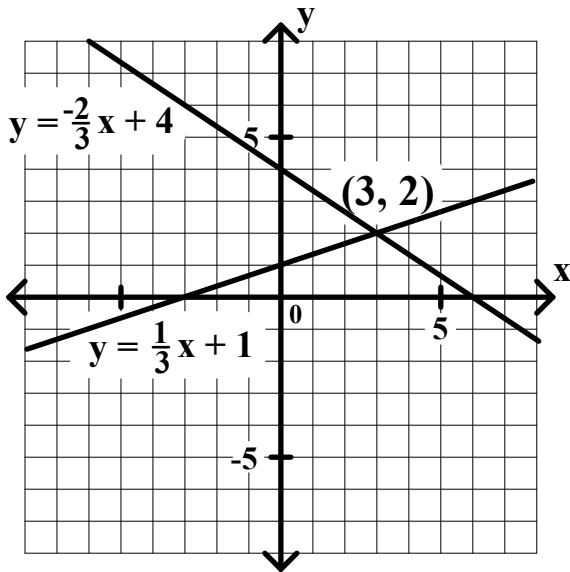


## Algebra II Worksheet #5 Unit 2 selected solutions

$$2. \quad y = \frac{1}{3}x + 1 \quad x = \underline{3}$$

$$y = -\frac{2}{3}x + 4 \quad y = \underline{2}$$

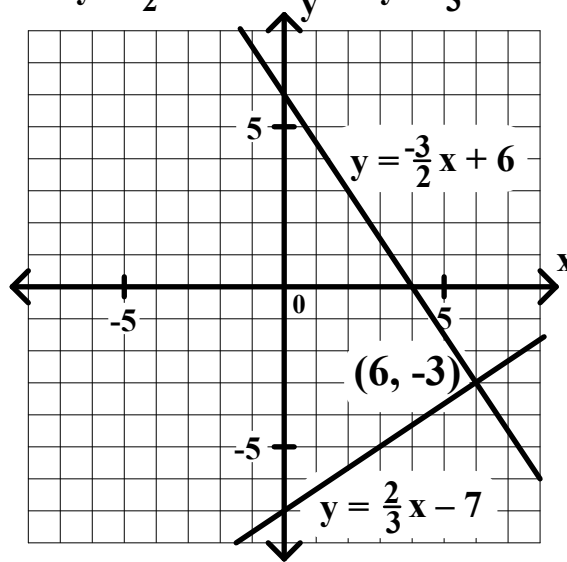


$$2. \quad 3x + 2y = 12 \quad x = \underline{6}$$

$$2x - 3y = 21 \quad y = \underline{-3}$$

$$2y = -3x + 12 \quad -3y = -2x + 21$$

$$y = -\frac{3}{2}x + 6 \quad y = \frac{2}{3}x - 7$$



$$8. \quad y = 4x + 3 \quad x = \underline{-2}$$

$$3x - 2y = 4 \quad y = \underline{-5}$$

$$3x - 2(4x + 3) = 4 \quad y = 4x + 3$$

$$3x - 8x - 6 = 4 \quad y = 4(-2) + 3$$

$$-5x - 6 = 4 \quad y = -8 + 3$$

$$-5x = 10 \quad y = -5$$

$$x = -2$$

$$9. \quad 5x + 4y = 11 \quad x = \underline{5/3}$$

$$y = 4x - 6 \quad y = \underline{2/3}$$

$$5x + 4(4x - 6) = 11 \quad y = 4x - 6$$

$$5x + 16x - 24 = 11 \quad y = 4(5/3) - 6$$

$$21x - 24 = 11 \quad y = 20/3 - 18/3$$

$$21x = 35 \quad y = 2/3$$

$$x = 5/3$$

$$14. \quad 3x + 5y = 2 \quad x = \underline{3/2}$$

$$7x + 3y = 9 \quad y = \underline{-1/2}$$

$$15. \quad 2x + 3y = -6 \quad x = \underline{3/4}$$

$$6x - 5y = 17 \quad y = \underline{-5/2}$$

$$-9x - 15y = -6 \quad 21x + 35y = 14$$

$$35x + 15y = 45 \quad -21x - 9y = -27$$

$$10x + 15y = -30 \quad -6x - 9y = 18$$

$$18x - 15y = 51 \quad 6x - 5y = 17$$

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$$26x = 39$$

$$x = 3/2$$

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$$26y = -13$$

$$y = -1/2$$

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$$28x = 21$$

$$x = 3/4$$

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$$-14y = 35$$

$$y = -5/2$$