MATH241 Midterm 3

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Problem 1

Please solve for x in the following equation: 3x + 2 = 5.

$$3x + 2 = 5$$

$$3x = 5 - 2$$

$$3x = 3$$

$$x = 1$$

Answer $x = 1$

Problem 2

Suppose that we have two (2) hamburgers, one from McDonald's™ and one from Burger King™. Which one should people choose and why? (Note that there is only one correct answer, partial credit will not be given for this question).

People should choose McDonald's because they have better food.

Answer *McDonalds*

Problem 3

Solve the system of equations for x and y. Make sure you show your steps otherwise no credit will be given.

$7x - 8y = -12$

$-4x + 2y = 3$

$$7x - 8y = -12$$

$$-4x + 2y = 3 \quad \Rightarrow \quad 2y = 3 + 4x$$

$$7x - 4(3 + 4x) = -12$$

$$7x - 12 - 16x = -12$$

$$-9x = 0$$

$$x = 0$$

$$y = \frac{3}{2}$$

Answer $x = 0, \quad y = \frac{3}{2}$