

MATH241 Midterm 3

Full Name: MICHAEL HANSEN

UIN: 8675309

Problem 1

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

$$\begin{aligned} 3x + 2 &= 5 \\ -2 &= -2 \\ \hline 3x &= 3 \\ \hline 3 & \quad 3 \\ x &= 1 \end{aligned}$$

Answer

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).

Answer

PEOPLE SHOULD CHOOSE MCDONALD'S BECAUSE THEIR ASSURED SUPPLY CHAIN IS BETTER PLANT FOR PROTECTING PEOPLE FROM FOOD SAFETY CONCERNS.

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

$$-4x + 2y = 3$$

$$u(7x - 84) = -12$$

$$7(-4x + 2y) = 7(3)$$

$$\begin{aligned} 7x - 4\left(\frac{5}{6}\right) &= -12 \\ 7x - \frac{20}{6} &= -12 \\ 7x - \frac{20}{3} &= -12 \\ 7x &= -12 + \frac{20}{3} \\ 7x &= \frac{-36 + 20}{3} \\ 7x &= \frac{-16}{3} \end{aligned}$$

$$7x = -\frac{16}{3}$$

$$x = \frac{-16}{21}$$

$$x = -\frac{16}{21}, \quad y = \frac{5}{6}$$