King Fahd University of Petroleum & Minerals
Faculty of science
Math P-Y, Math 001 Quiz #5

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Name: Sect.# ST.ID#

1) Determine whether the equation is identity, conditional or contradiction.

a) $(x+4)^2 = x^2 + 16$ b) $2x - 4 = 2(x-3) + 2$ c) $\dfrac{x}{x-2} = \dfrac{2}{x-2} + 2$

2) Solve the following equations:

a) $\dfrac{1-x}{x+1} = \dfrac{2}{x} - 1$ b) $2\left|2x-4\right| - 3 = 13$

c) $a = \dfrac{b-rm}{1-r}$, **for r** d) $B = \dfrac{1}{3}(c-x)y$, **for x**

3) Decide whether the given pair of equations is equivalent or not?

$$\frac{3x+3}{x+1}=\frac{2x+2}{x+1}, \quad 2x+4=x+3$$

4) The width of the rectangle is 1 more than half of the length; if the perimeter of the rectangle is 110, find the width & the length.

5) What values of x that makes the following equations true:

a) $|2x-4|=-3$ b) $|3x-11|=-3x+11$ c) $|x+1|=|x+3|+4$