

King Fahd University of Petroleum and Minerals
Prep-Year Math Program
Math 001—Term 061
Recitation (1.1&1.2)

Question (1):

Determine whether each of the following equations is an identity, a conditional equation or a contradiction.

a) $2x - x^2 = x(2 - x)$

b) $3x + 5 = 2(x + 5)$

c) $x + 5 = x - 1$

Question (2):

Solve the following equations:

a) $\frac{2x}{x-1} = 5 + \frac{2}{x-1}$

b) $\frac{|x-1|+2}{1+|x-1|} - \frac{3}{2} = 0$

Question (3):

Solve each of the following equations for the variable indicated:

a) $S = 2\pi(r_1 + r_2)h$ for r_1 .

b) $m = \frac{kv_1}{v_1 - v_2}$ for v_1 .

Question (4):

The length of a rectangle is 3 cm. less than twice the width .The perimeter is 54 cm. find the width.