

King Fahd University of Petroleum and Minerals
Prep-Year Math Program
Math 001—Term 061
Recitation (1.5&2.1)

Question1:

Find the solution set in interval notation of the of the following inequality

a) $\frac{3}{x+1} > x - 1$

b) $|2 - 2x| - 1 > 4$

Question2:

Find the set of all values of k for which the equation has two real solutions:

$$x^2 + kx + 2k = 0$$

Question3:

Decide whether or not each equation has a circle as its graph.

a) $x^2 - 6x + y^2 + 10y + 25 = 0$

b) $x^2 + 10x + y^2 - 4y + 33 = 0$

Question4:

Find the equation of a circle with center $(-2,3)$ that has a diameter with one end point $(1,0)$

