Unit 0 HW #7

1. Find the slope and intercepts of $3x + 4y = 12$. Sketch a graph. *Help*

2. Write an equation for the line that passes through the points (2, 0) and (0, −3). Remember that drawing a diagram (in this case, drawing the graph) can be very helpful. *Help*

3. Solve each equation below. Give solutions in both radical and decimal form. *Help*
   a. $x^2 + 3x - 3 = 0$
   b. $3x^2 - 7x = 12$

4. Graph $y = |x - 4|$. Give the domain and range.

5. Solve each equation below.
   a. $9 - 4|x + 10| = -15$
   b. $|3x - 9| = x + 1$
   c. $16|r - 5| = -32$