Math 1010 - Quiz 3

University of Utah

Fall 2009

Name: _____

1. Find the values of x that satisfy the equation: (4 points)

$$|4x + 3| = |2x - 1|$$

2. Find the values of x that satisfy the inequality below, and graph them on the number line: (4 points)

$$|2x - 3| \leq 9$$

3. Draw an xy-plane, and graph the following points: $(-1, 4), (-1, -2), (2, 2)$.
   (2 points)

4. Find the straight-line distances between the following points:

   (a) $(-1, 4)$ and $(-1, -2)$. (2 points)

   (b) $(-1, -2)$ and $(2, 2)$. (3 points)