Algebra II: Answers to Quiz #4

Directions: Write down all steps to each problem and show all work. For all inequalities, write the answer in interval notation.

1) \[ |8x - 3| > 21 \]
   \[ \left( -\infty, -\frac{9}{4} \right) \cup (3, \infty) \]

2) \[ |9 - 2x| = 5 \]
   \{2, 7\}

3) \[ |y + 9| \leq 2 \]
   \[-11, -7\]

4) \[ |10y - 1.3| = 4.7 \]
   \{-0.34, 0.6\}

5) \[ |9 - 4x| \geq 15 \]
   \[ \left( -\infty, -\frac{3}{2} \right] \cup [6, \infty) \]