

Math 121**Quiz 5**

Justify all answers with neat and organized work. Clearly indicate your answers.
10 points possible.

1. (4 pts.) Solve the quadratic equation for x by **completing the square**.

$$x^2 + 6x + 4 = 0$$

2. (3 pts.) Find all solutions of the equation. Check your solutions in the original equation.

$$|3x - 1| = 8$$

3. (3 pts.) Solve the inequality and sketch the solution on the real number line.

$$-4 < \frac{2x - 3}{3} < 4$$