Math 221-17   2007/8/28   **QUIZ 1**   Name _____

- Show all your work for each problem; show enough work to fully justify your answer. Your work may continue on the back.
- Simplify all answers as far as possible.

(1) [Points: 5] Simplify: $\sqrt{x^2}$.

(2) [Points: 10] Show the graph of the solution set on the real line:
$$|x - 7| \le 10.$$

(3) [Points: 10] Solve and show the graph of the solution set on the real line:
$$3x^2 + 4x + 1 > 0.$$