

Math 111 Fall 2007
Quiz 1 (October 4, 2007)

Name: _____

Show all work clearly and circle your final answers. You have 15 minutes to take this quiz.

- 1.** (20 points) Solve the given inequality. Express your answer in interval notation.

$$|x - 2| > 7$$

- 2.** (20 points) Use the quadratic formula to solve the equation

$$3x^2 - 2x = 10.$$

3. (*30 points*) Find the distance between the two points (8, 4) and (1, 7) and the midpoint of the segment joining them. Find the equation of the line through the two points.

4. (*30 points*) Find the center and radius of the circle whose equation is given.

$$5x^2 + 5y^2 + 10x - 70 = 10y$$