

Quiz # 2

Directions: Carefully read each question below and answer to the best of your ability in the space provided. You **MUST** show your work to receive full credit!

1. (5 points) Find the center and radius of the circle whose equation is

$$x^2 - 6x + y^2 + 8y + 20 = 0.$$

2. (5 points) Suppose $Q(3, 0)$ is the midpoint of the line segment AB where A is the point $(1, -4)$. Find the point B . (Hint: Let B be the point (x_2, y_2) ; then use the definition of a midpoint to find x_2 and y_2).

3. (5 points) Find the x -intercepts and y -intercepts of the following equation:

$$x^2 - 4xy + 9y^2 = 1.$$

Name: _____

Question:	1	2	3	Total
Points:	5	5	5	15
Score:				