

Name:

Show all your work in order to receive maximum credit. No work, no credit.

1. Find all of the intercepts for the given equation. [6 points]

$$y = x^2 + 8x - 2$$

2. Given the standard form of a circle $(x + 5)^2 + (y - 7)^2 = 10$, find the center, and radius. [5 points]

3. Convert the general form of the circle $x^2 - 12x + y^2 + 6y - 3 = 0$ to standard form. [6 points]