

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]

$$y = x^2 + 6x - 3$$

2. Given the standard form of a circle $(x + 1)^2 + (y - 8)^2 = 14$, find the center, and radius. [5 points]

3. Convert the general form of the circle $x^2 - 4x + y^2 + 10y - 6 = 0$ to standard form. [6 points]