

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]

$$y = x^2 + 7x - 5$$

2. Given the standard form of a circle $(x - 4)^2 + (y - 2)^2 = 15$, find the center, and radius. [5 points]

3. Convert the general form of the circle $x^2 - 8x + y^2 + 12y - 5 = 0$ to standard form. [6 points]