EXTRA REVIEW Quiz 2.1

**Directions:** Show all work in order to receive full credit.

1. Determine the center and the radius of
2. Convert the following quadratic into vertex form: .
3. Given a parabola with focus (1, 4) and directrix , write the equation of the parabola in standard form.
4. Factor the expression completely:
5. Solve by completing the square and express the result in simplest form.
6. Factor completely: