Name:

1. Solve for $x$ using the quadratic formula.

$$3x^2 - 10x + 3$$

2. Complete the square.

$$x^2 + 10x$$

3. Complete the square. Isolate the square term on the left and the constant on the right.

$$4x^2 - 16x + 12 = -8$$

4. Complete the equation for a circle: $(x - h)^2 + (y - k)^2 = r^2$. Then list the center $(h, k)$ and radius $r$ of the circle.

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

5. Complete the equation for a circle. Then list the center and radius of the circle.

$$3x^2 + 3y^2 + 6x - 18y = 2$$