

Graph the circle (indicate any intercepts) and then state the center-point and radius of the circle:

$$1. \ x^2 + y^2 = 16$$

$$2. \ (x + 3)^2 + (y - 1)^2 = 25$$

$$3. \ (x - 3)^2 + y^2 = 36$$

$$4. \ (x + 2)^2 + (y + 2)^2 = 4$$

$$5. \ x^2 - 8x + y^2 - 10y = 8$$

$$6. \ x^2 + y^2 + 6x - 12y + 43 = 0$$

$$7. \ x^2 + y^2 - 8x + 10y = -40$$

$$8. \ y^2 - 4y + 18 = -x^2 - 12x - 18$$