1-8 Find the vertex, focus, and directrix of the parabola, and sketch the graph.

1.
$$y^2 = 4x$$

2.
$$x = \frac{1}{12}y^2$$

3.
$$x^2 + 8y = 0$$

4.
$$2x - y^2 = 0$$

9-16 ■ Find the center, vertices, foci, and the lengths of the major and minor axes of the ellipse, and sketch the graph.

9.
$$\frac{x^2}{9} + \frac{y^2}{25} = 1$$

10.
$$\frac{x^2}{49} + \frac{y^2}{9} = 1$$

11.
$$x^2 + 4y^2 = 16$$

12.
$$9x^2 + 4y^2 = 1$$

43-50 ■ Find an equation for the conic section with the given properties.

43. The parabola with focus F(0, 1) and directrix y = -1