

Conic Sections Ellipse

Ellipse – the set of all

$$\frac{(x-h)^2}{a^2} + \frac{(y-k)^2}{b^2} = 1$$

$$49x^2 + 4y^2 = 196$$

$$9x^2 - 72x + 4y^2 + 16y + 124 = 0$$

$F(0, -2)(0, 2)$

Vertices  $(0, -6)(0, 6)$

Center  $(0, 0)$