

Chapter 1. Introduction to conic sections

1. The basic definitions

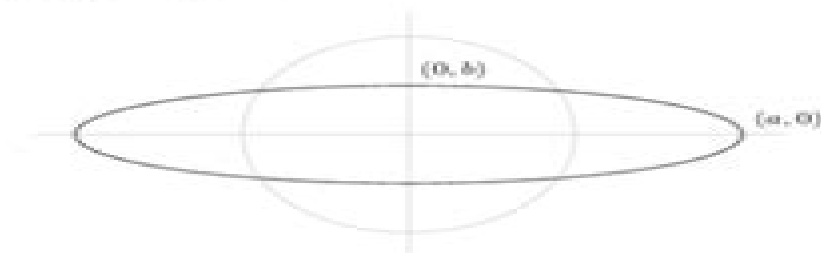
(1) An **ellipse** is obtained from a circle by scaling it in perpendicular directions, say along the coordinate axes, using possibly different scale factors along each axis. If we start with a unit circle

$$x^2 + y^2 = 1$$

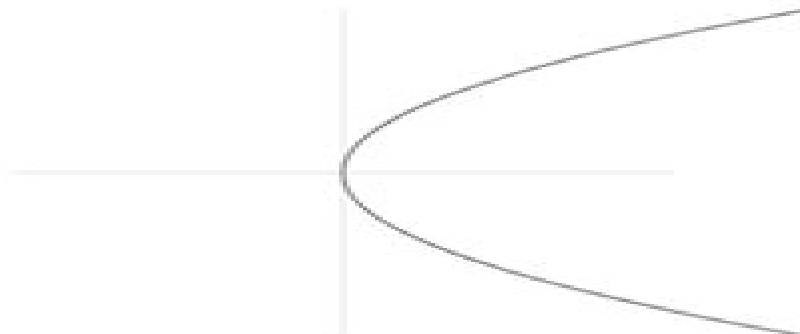
and scale x -values by a and y -values by b , we obtain the ellipse

$$\left(\frac{x}{a}\right)^2 + \left(\frac{y}{b}\right)^2 = 1$$

since if (x, y) is a point on the new curve then $(x/a, y/b)$ is a point on the unit circle. If $a > b$ then the longest axis has length $2a$, and the shortest one length $2b$. The numbers a and b are called the **semi-axes** of the ellipse, a the **semi-major axis** and b the **semi-minor axis**.



(2) We get a **parabola** from the equation $x = cy^2$.



Evaluation Of Conic Sections And Their Applications Key

M Walker



Evaluation Of Conic Sections And Their Applications Key:

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