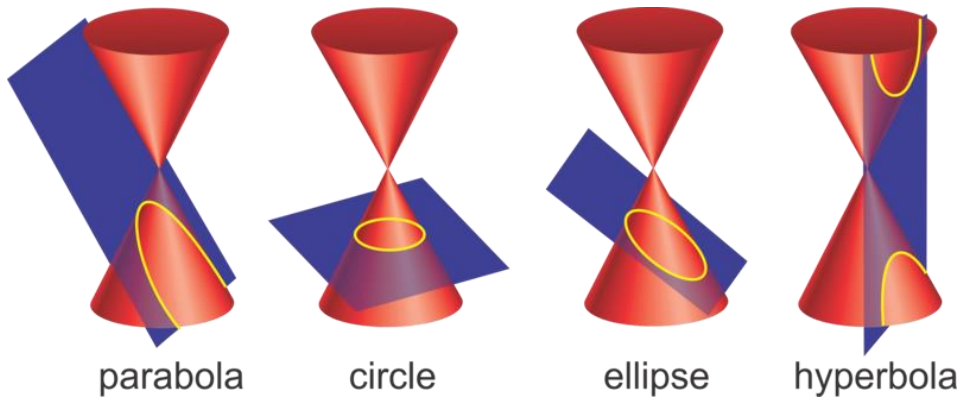


3A Ellipses



1. The ellipse E has equation $4x^2 + 9y^2 = 36$.
 - a) Sketch E .

b) Write down its parametric equations.

2. The ellipse E has parameter equations:

$$x = 3 \cos \theta \quad y = 5 \sin \theta$$

Determine its Cartesian equation.