

Conic Sections Review
Calculus I

Ellipse		
Picture		
Equation		
Vertices		
Foci		
Ends of Minor Axis		

Parabola		
Picture		
Equation		
Vertex/Center		
Focus		
Directrix		

Hyperbola		
Picture		
Equation		
Transverse/Major Axis		
Center		
Foci		
Vertices		
Asymptotes		

Circle	
Picture	
Equation	
Center	
Radius	

$$36x^2 + 9y^2 - 324 = 0$$

Find vertices, ends of minor axes, and foci. Then sketch the conic section.

$$y^2 + 2y - 12x + 37 = 0$$

Find focus, directrix, and vertex. Then sketch the conic section.

$$9y^2 + 18y - 4x^2 + 16x = 43$$

Find the center, foci, ends of major. Then sketch the conic section.