

Formula Sheet for Conics – Complete using as much detail as possible.

Midpoint:	Distance:
Point –	Point –
Formula –	Formula –
Circle:	Graph at Origin and Label Center & Radius
Equation –	
Center –	
Radius –	
Vertical Ellipse:	Graph at Origin and Label center, a, b, c, Foci, Vertices, Co-Vertices, Major & Minor Axis
Equation –	
Center –	
a –	
b –	
c –	
Pythagorean Rule:	
Horizontal Ellipse:	Graph at Origin and Label center, a, b, c, Foci, Vertices, Co-Vertices, Major & Minor Axis
Equation –	
Center –	
a –	
b –	
c –	
Pythagorean Rule:	
Vertical Hyperbola:	Graph at Origin and Label center, a, b, c, Foci, Vertices, Asymptotes & Transverse Axis
Equation –	
Center –	
a –	
b –	
c –	
Equation to Asymptotes:	
Pythagorean Rule:	

Horizontal Hyperbola:	Graph at Origin and Label center, a, b, c, Foci, Vertices, Asymptotes & Transverse Axis
Equation – Center – a – b – c – Equation to Asymptotes: Pythagorean Rule:	
Right Parabola:	Graph at Origin and Label, p, LR, Focus, Vertex & Directrix
Equation – Vertex – p – Latus Rectum – Directrix –	
Left Parabola:	Graph at Origin and Label, p, LR, Focus, Vertex & Directrix
Equation – Vertex – p – Latus Rectum – Directrix –	
Up Parabola:	Graph at Origin and Label, p, LR, Focus, Vertex & Directrix
Equation – Vertex – p – Latus Rectum – Directrix –	
Down Parabola:	Graph at Origin and Label, p, LR, Focus, Vertex & Directrix
Equation – Vertex – p – Latus Rectum – Directrix –	