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

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

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 –	