**Ch. 7 Conic Sections and Parametric Equations**

**7.1 Parabolas**

1) I can analyze and graph equations of parabolas.

2) I can write equations of parabolas in standard form.

3) I can write an equation for a line that is tangent to the given parabola.

**7.2 Ellipses and Circles**

1) I can analyzes and graph equations of ellipses and circles.

2) I can determine the eccentricity of an ellipse.

3) I can use equations to identify ellipses and circles.

**7.3 Hyperbolas**

1) I can analyze and graph equations of hyperbolas.

2) I can use equations and the discriminant to identify types of conic equations.

**7.4 Rotations of Conic Sections**

1) I can find rotation of axes to write equations of rotated conic sections.

2) I can graph rotated conic sections.

3) I can use a graphing calculator to graph the conic given by an equation that is not in standard form.

**7.5 Parametric Equations**

1) I can graph parametric equations.

2) I can write equations in rectangular form.

3) I can solve problems related to the motion of projectiles.