**PreCalculus 10.1 to 10.4 Review**

Lines Parabola Ellipse Hyperbola

**10.1 Lines**

Find the inclination (in degrees) of the line:

Find the angle (in radians) between the lines: and

Find the distance between the point and the line .

**10.2 Parabolas**

Write the equation in standard form for the parabola with vertex (0, 2) and directrix: .

Graph the parabola:

**10.3 Ellipses**

Write the equation in standard form for the ellipse with vertices (4, 3) and (4, 7); and foci (4, 4) and (4, 6).

Graph the ellipse:

Graph the ellipse:

**10.4 Hyperbolas**

Write the equation in standard form for the hyperbola with vertices and foci .

Graph the hyperbola:

Graph the hyperbola:

**10.1 Lines**

Find the inclination (in degrees) of the line:

Find the angle (in radians) between the lines: and

Find the distance between the point and the line

**10.2 Parabolas**

Write the equation in standard form for the parabola with vertex (0, 2) and directrix: .

Graph the parabola:

Vertex:

Focus:

Directrix:

**10.3 Ellipses**

Write the equation in standard form for the ellipse with vertices (4, 3) and (4, 7); and foci (4, 4) and (4, 6).

Graph the ellipse:

Center:

Vertices:

Co-Vertices:

Foci:

Graph the ellipse:

Center:

Vertices:

Co-Vertices:

Foci:

**10.4 Hyperbolas**

Write the equation in standard form for the hyperbola with vertices and foci .

Graph the hyperbola:

Center:

Vertices:

Foci:

Asymptotes:

Graph the hyperbola:

Center:

Vertices:

Foci:

Asymptotes: