Chapter 9 Review Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Hour: \_\_\_\_\_\_

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| 1. Graph each of the following conic section: Identify all key characteristics such as center, vertex, focus(foci), directrix, major axis, minor axis, and equations of asymptotes  |
| 2. Graph each of the following conic sections: Identify all key characteristics such as center, vertex, focus(foci), directrix, major axis, minor axis, and equations of asymptotes where applicable.   |
| 3. Graph each of the following conic sections:  Identify all key characteristics such as center, vertex, focus(foci), directrix, major axis, minor axis, and equations of asymptotes where applicable.  |
| 4. Write the equation of the graph below.Description: http://t2.gstatic.com/images?q=tbn:ANd9GcRVHIQDqlXlpX6BCJh7OZ3dk4rhJjiwU6k9GVg3bTUWKDDgQJuhZ_knaPwzkQ | 5. Write the equation of the graph below.Description: http://techtraining.brevardschools.org/geogebra/parabola2.jpg |
| 6. Graph the plane curve described by the parametric equations. |
| 7. Convert the equation to standard form by completing the square on x and y. $$4x^{2}-y^{2}+32x+6y+39$$ |
| 8. Find the standard form of the equation of the parabola, given that the vertex is (1, 4) and the focus is (1, -2) | 9. Given the following parametric equation and a value for the parameter *t,* x=t2+1, y =4-t3, t = 2 find the coordinates of the point on the plane described by the equation corresponding to the *t-*value. |