

Algebra 2 Conics Review 2

Name _____ Period _____

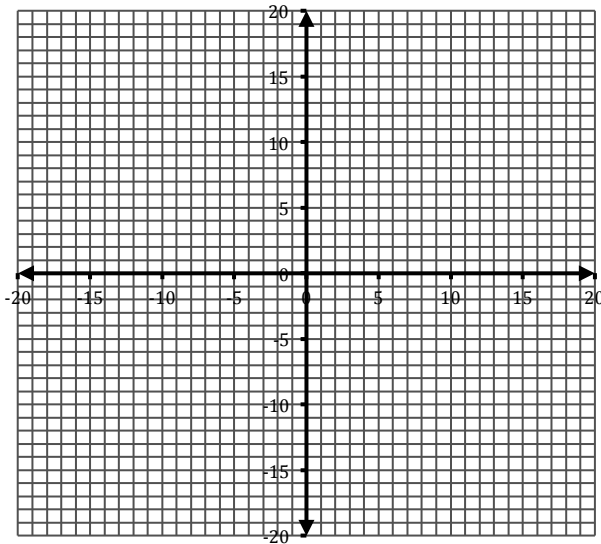
1. A circle has a diameter with endpoints at $(-3,-6)$ and $(9,10)$.
 - A. Find the center and radius of the circle.

 - B. Find the equation of the line tangent to the circle at point $(-3,-6)$.

 - C. Write the equation of the circle.

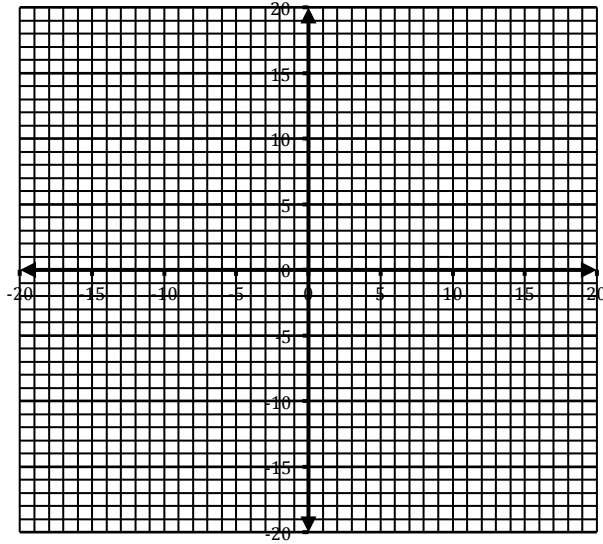
2. Given $y - 2 = \frac{1}{24}x^2$. Write the coordinates for the vertex and the focus.

3. Graph and label the center, vertices, and co-vertices of $\frac{(x-1)^2}{25} + \frac{(y)^2}{36} = 1$.



4. Write an equation in standard form for the Ellipse with vertices at $(-4, 0)$ and $(-4, -4)$ and co-vertices at $(-5, -2)$ and $(-3, -2)$.

5. Graph $x - 2 = -\frac{1}{24}(y + 1)^2$. Then, write the equation of the axis of symmetry and directrix.



6. Write the equation of the hyperbola with a center at $(-5,1)$, vertex at $(-5,6)$, and co-vertex at $(-1,1)$.

7. Graph and label the center, vertices, and co-vertices of $\frac{(x-1)^2}{16} - \frac{(y+2)^2}{9} = 1$. Also identify the equation of the asymptotes.

