

Hyperbolas

Name _____

Hour _____ Date _____

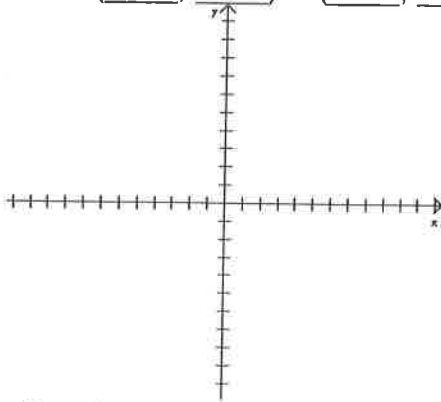
You are to fill in the missing information and sketch the graph.

1. $\frac{y^2}{4} - \frac{x^2}{25} = 1$

center is (_____, _____)

Asymptotes are _____ & _____

Vertices are (_____, _____) & (_____, _____)

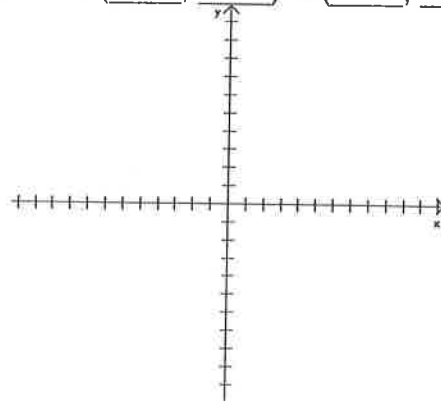


2. $\frac{x^2}{9} - \frac{y^2}{16} = 1$

center is (_____, _____)

Asymptotes are _____ & _____

Vertices are (_____, _____) & (_____, _____)

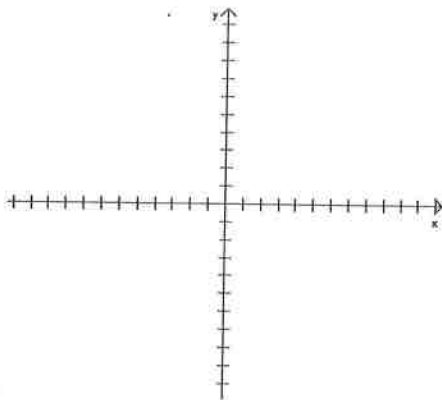


3. $\frac{x^2}{4} - \frac{y^2}{25} = 1$

center is (_____, _____)

Asymptotes are _____ & _____

Vertices are (_____, _____) & (_____, _____)

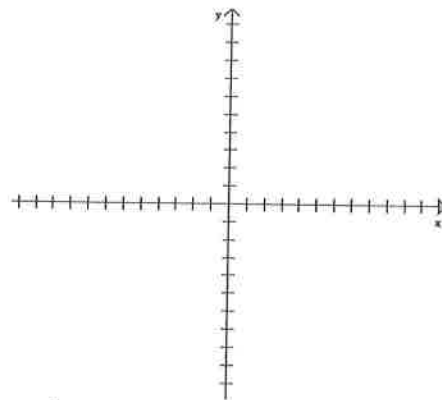


4. $\frac{x^2}{4} - \frac{y^2}{9} = 1$

center is (_____, _____)

Asymptotes are _____ & _____

Vertices are (_____, _____) & (_____, _____)

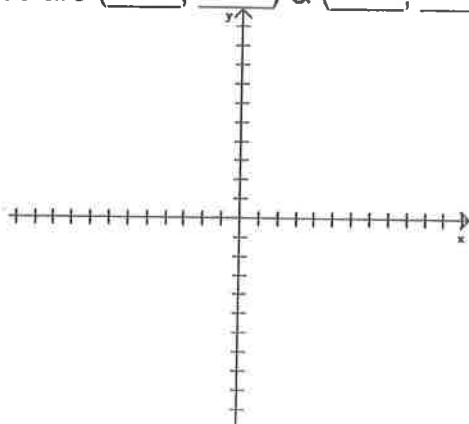


5. $\frac{y^2}{9} - \frac{x^2}{16} = 1$

center is (_____, _____)

Asymptotes are _____ & _____

Vertices are (_____, _____) & (_____, _____)

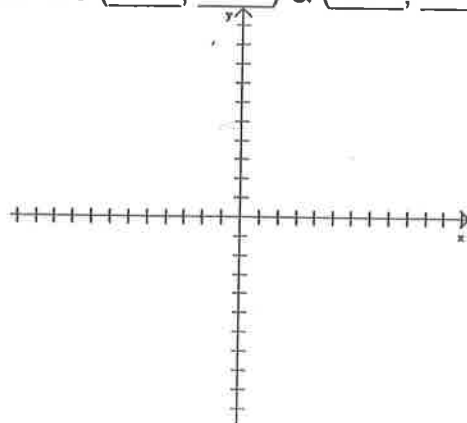


6. $\frac{x^2}{36} - \frac{y^2}{16} = 1$

center is (_____, _____)

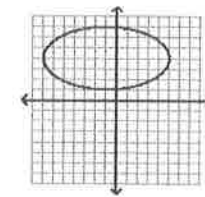
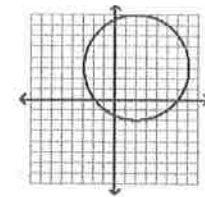
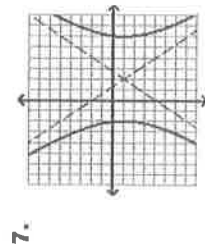
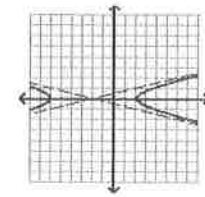
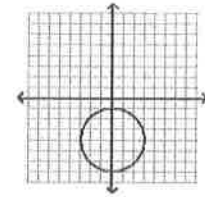
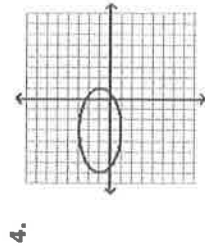
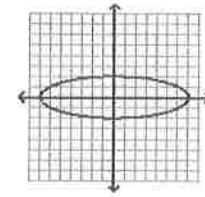
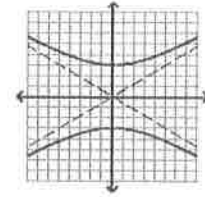
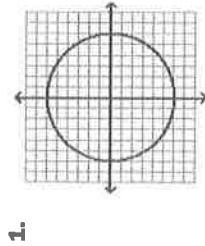
Asymptotes are _____ & _____

Vertices are (_____, _____) & (_____, _____)



Circles, Ellipses, and Hyperbolas Name _____

Write the standard form equation of each conic section shown below.



Name _____

Date _____

Conics
(Answer ID #02122/4)

Match the equation of the parabola, circle, or ellipse with its graph.

$\frac{x^2}{16} + \frac{y^2}{64} = 1$

$\frac{(x + 1)^2}{64} + \frac{(y - 2)^2}{100} = 1$

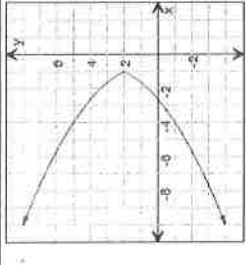
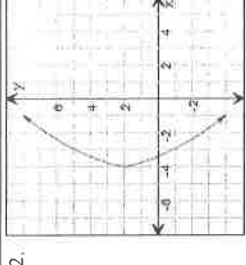
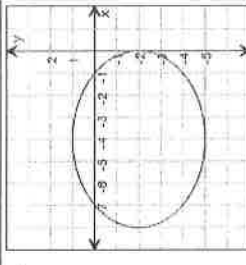
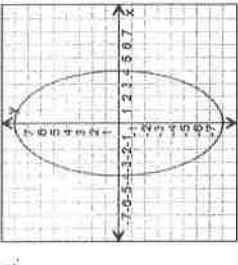
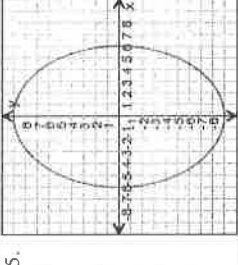
$x + 1 = -\frac{1}{4}(y - 2)^2$

$\frac{x^2}{36} + \frac{y^2}{81} = 1$

$x + 4 = \frac{1}{12}(y - 2)^2$

$\frac{x^2}{36} + \frac{y^2}{81} = 1$

$y + 3 = -\frac{1}{12}(x - 3)^2$

1. 	2. 	3. 
4. 	5. 	6. 