

Precalculus Hyperbola WS 1

Graph each Hyperbola. Find the center, vertices, foci, and equation of the asymptotes for each hyperbola.

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

Center _____
 Vertices _____
 Foci _____
 Asymptotes _____

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

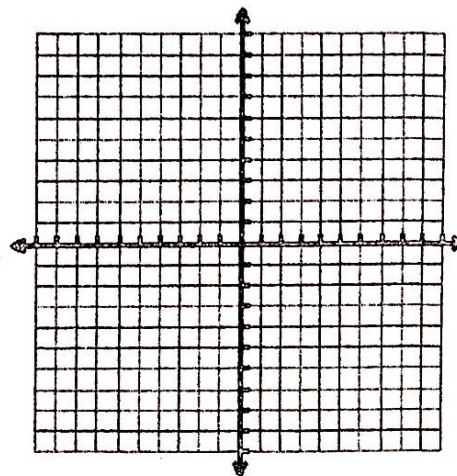
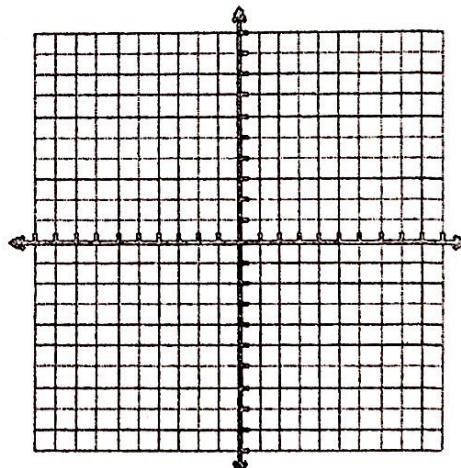
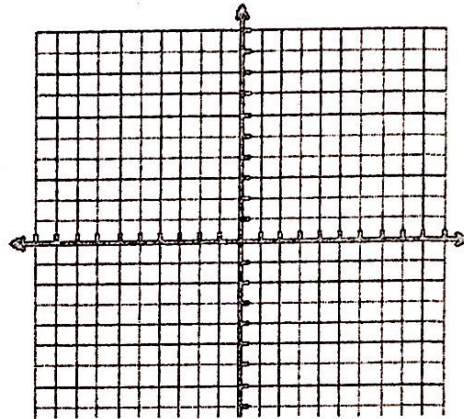
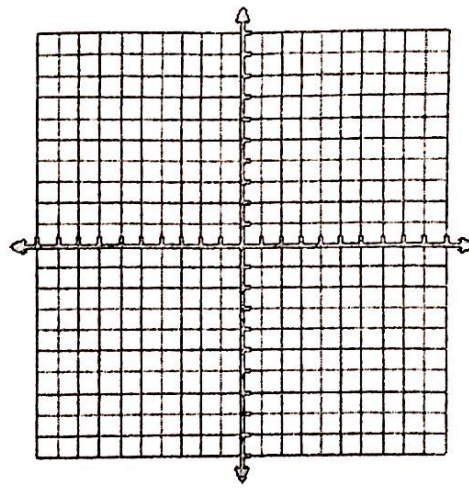
Center _____
 Vertices _____
 Foci _____
 Asymptotes _____

3. $\frac{(x+3)^2}{9} - \frac{(y-2)^2}{25} = 1$

Center _____
 Vertices _____
 Foci _____
 Asymptotes _____

4. $\frac{(y-2)^2}{36} - \frac{x^2}{4} = 1$

Center _____
 Vertices _____
 Foci _____
 Asymptotes _____



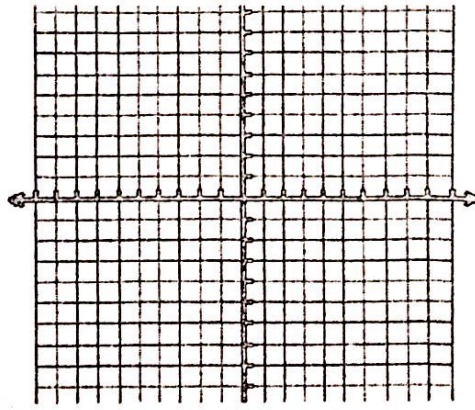
$$5. \frac{(x+1)^2}{9} - \frac{(y-2)^2}{64} = 1$$

Center _____

Vertices _____

Foci _____

Asymptotes _____



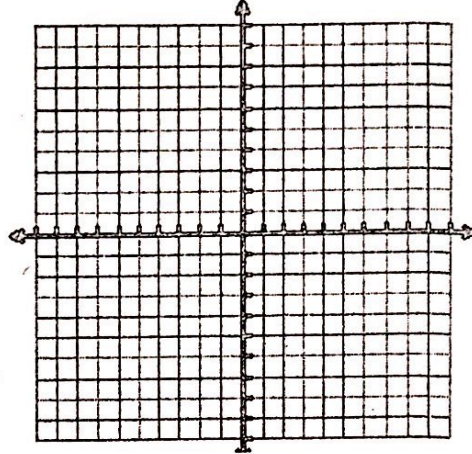
$$6. \frac{(y+2)^2}{16} - \frac{(x-1)^2}{49} = 1$$

Center _____

Vertices _____

Foci _____

Asymptotes _____



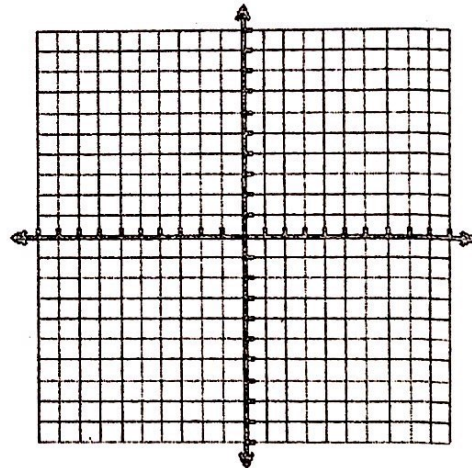
$$7. \frac{(y+3)^2}{9} - \frac{(x-4)^2}{16} = 1$$

Center _____

Vertices _____

Foci _____

Asymptotes _____



$$8. \frac{x^2}{36} - \frac{(y+5)^2}{4} = 1$$

Center _____

Vertices _____

Foci _____

Asymptotes _____

