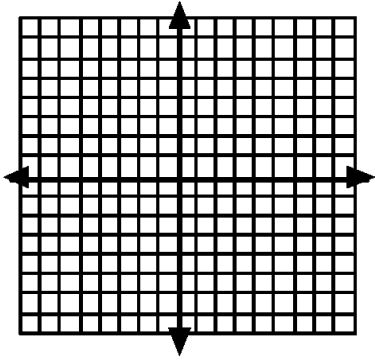
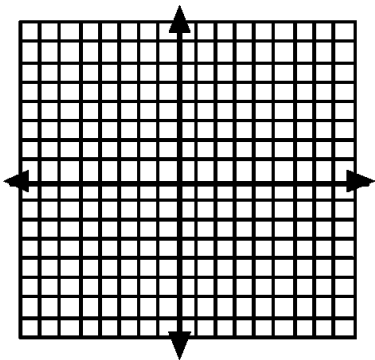


**Algebra 2**  
**9.4 and 9.5 Review**

Name \_\_\_\_\_

Graph each ellipse and fill in the missing information.

$\frac{x^2}{25} + \frac{y^2}{16} = 1$ <p>center _____</p> <p>length of major axis _____</p> <p>length of minor axis _____</p> <p>vertices _____, _____</p> <p>co-vertices _____, _____</p>	
$\frac{(y+1)^2}{36} + \frac{(x-4)^2}{4} = 1$ <p>center _____</p> <p>length of major axis _____</p> <p>length of minor axis _____</p> <p>vertices _____, _____</p> <p>co-vertices _____, _____</p>	

Write an equation for an ellipse that satisfies each set of conditions.

<p>Vertices at (9, 0) and (-9, 0)            Co-vertices at (0, 4) and (0, -4)</p>	<p>Vertices at (-2, -6) and (-2, 4)            Co-vertices at (-5, -1) and (1, -1)</p>
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Graph each hyperbola and fill in the missing information.

$$\frac{x^2}{25} - \frac{y^2}{16} = 1$$

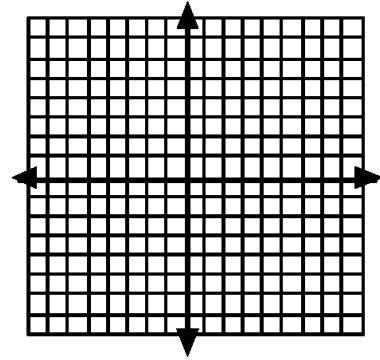
center \_\_\_\_\_

length of transverse axis \_\_\_\_\_

vertices \_\_\_\_\_, \_\_\_\_\_

co-vertices \_\_\_\_\_, \_\_\_\_\_

equations of asymptotes \_\_\_\_\_



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

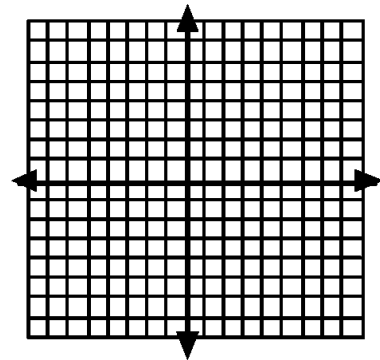
center \_\_\_\_\_

length of transverse axis \_\_\_\_\_

vertices \_\_\_\_\_, \_\_\_\_\_

co-vertices \_\_\_\_\_, \_\_\_\_\_

equations of asymptotes \_\_\_\_\_



Write an equation for a hyperbola that satisfies each set of conditions.

Vertices at (9, 0) and (-9, 0)  
Co-vertices at (0, 4) and (0, -4)

Vertices at (0, -6) and (0, 6)  
Co-vertices at (-5, 0) and (5, 0)