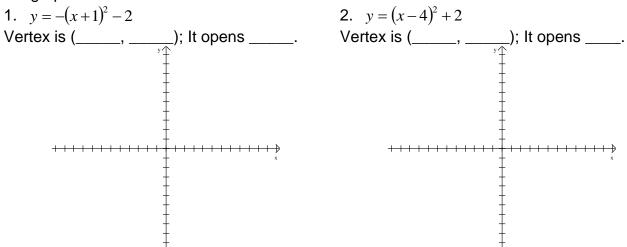
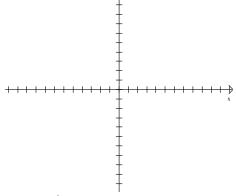
Name	
Conic Sections (without hyperbolas)	
Hour	
Data	

The first four problems are parabolas. You are to fill in the missing information and sketch the graph.

1. 
$$y = -(x+1)^2 - 2$$

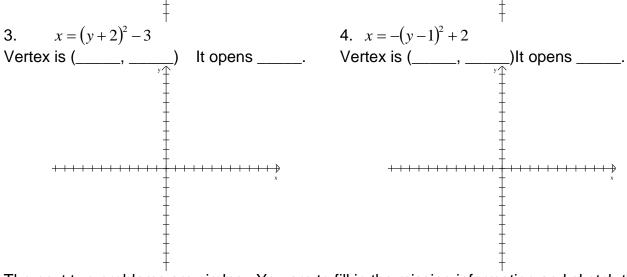
$$2. \quad y = (x-4)^2 + 2$$

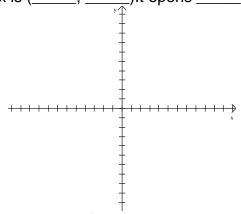




3. 
$$x = (y+2)^2 - 3$$

4. 
$$x = -(y-1)^2 + 2$$

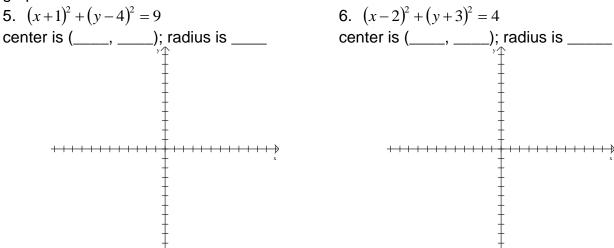


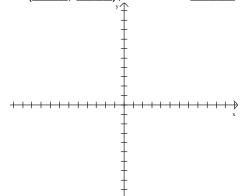


The next two problems are circles. You are to fill in the missing information and sketch the graph.

5. 
$$(x+1)^2 + (y-4)^2 = 9$$

6. 
$$(x-2)^2 + (y+3)^2 = 4$$





Then next four problems are ellipses. You are to fill in the missing information and sketch the graph.

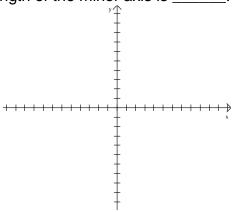
7. 
$$\frac{x^2}{4} + \frac{y^2}{9} = 1$$

Center is (\_\_\_\_, \_\_\_)

The major axis is parallel to the \_\_\_\_-axis.

The length of the major axis is \_\_\_\_\_.

The length of the minor axis is \_\_\_\_\_.



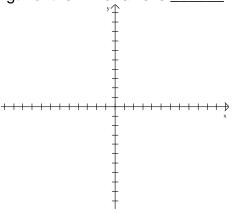
8. 
$$\frac{(x-1)^2}{16} + \frac{(y+1)^2}{4} = 1$$

Center is (\_\_\_\_, \_\_\_)

The major axis is parallel to the \_\_\_\_-axis.

The length of the major axis is \_\_\_\_\_.

The length of the minor axis is \_\_\_\_\_.



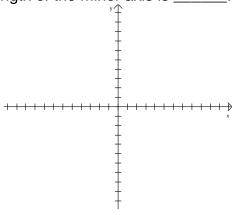
9. 
$$\frac{(x+2)^2}{9} + \frac{(y-3)^2}{4} = 1$$

Center is (\_\_\_\_, \_\_\_)

The major axis is parallel to the \_\_\_\_-axis.

The length of the major axis is \_\_\_\_\_.

The length of the minor axis is \_\_\_\_\_.



10. 
$$\frac{(x-4)^2}{4} + (y+5)^2 = 1$$

Center is (\_\_\_\_, \_\_\_)

The major axis is parallel to the \_\_\_\_-axis.

The length of the major axis is \_\_\_\_\_.

The length of the minor axis is \_\_\_\_\_.

