

# Math Sheet

Name \_\_\_\_\_ Score \_\_\_\_\_ / 28 Teacher \_\_\_\_\_ Date \_\_\_\_\_

## Properties of Ellipses

Identify the requested exact properties of each ellipse.

1.  $\frac{x^2}{121} + \frac{(y - 4)^2}{36} = 1$

Center: \_\_\_\_\_  
Vertices: \_\_\_\_\_  
Co-vertices: \_\_\_\_\_  
Foci: \_\_\_\_\_  
Major axis length: \_\_\_\_\_  
Minor axis length: \_\_\_\_\_  
Eccentricity: \_\_\_\_\_

2.  $\frac{(x - 6)^2}{9} + \frac{y^2}{100} = 1$

Center: \_\_\_\_\_  
Vertices: \_\_\_\_\_  
Co-vertices: \_\_\_\_\_  
Foci: \_\_\_\_\_  
Major axis length: \_\_\_\_\_  
Minor axis length: \_\_\_\_\_  
Eccentricity: \_\_\_\_\_

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

Center: \_\_\_\_\_  
Vertices: \_\_\_\_\_  
Co-vertices: \_\_\_\_\_  
Foci: \_\_\_\_\_  
Major axis length: \_\_\_\_\_  
Minor axis length: \_\_\_\_\_  
Eccentricity: \_\_\_\_\_

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

Center: \_\_\_\_\_  
Vertices: \_\_\_\_\_  
Co-vertices: \_\_\_\_\_  
Foci: \_\_\_\_\_  
Major axis length: \_\_\_\_\_  
Minor axis length: \_\_\_\_\_  
Eccentricity: \_\_\_\_\_