Algebra 2 Name_____ Date_____

8.4 Ellipse Practice Worksheet

Given: $9x^2+16y^2-54x+64y+1=0$ **FIND:**

1. Equation in standard form _____

2. Center _____

3. Length of Major axis _____

4. Length of Major axis _____

5. Draw a rough sketch

6. Value of ***'c'*** _____

7. Graph it on graph paper

Given: Endpoints of major axis at (-2, 7) and (4, 7) and endpoints of minor axis at (1, 5) and (1, 9)

FIND the equation of the ellipse:

1. Draw a rough sketch

2. Center _____

3. Horizontal or vertical _____

4. Length of Major axis _____

5. Value of a _____

6. Value of a^2 _____

7. Length of Minor axis _____

8. Value of b _____

9. Value of b^2 _____

10. Equation in standard form _____

Given: major axis 24 units long and parallel to the y-axis and minor axis 4 units long , center at (0, 3)

FIND the equation of the ellipse:

1. Draw a rough sketch

2. Center _____

3. Horizontal or vertical _____

4. Length of Major axis _____

5. Value of a _____

6. Value of a^2 _____

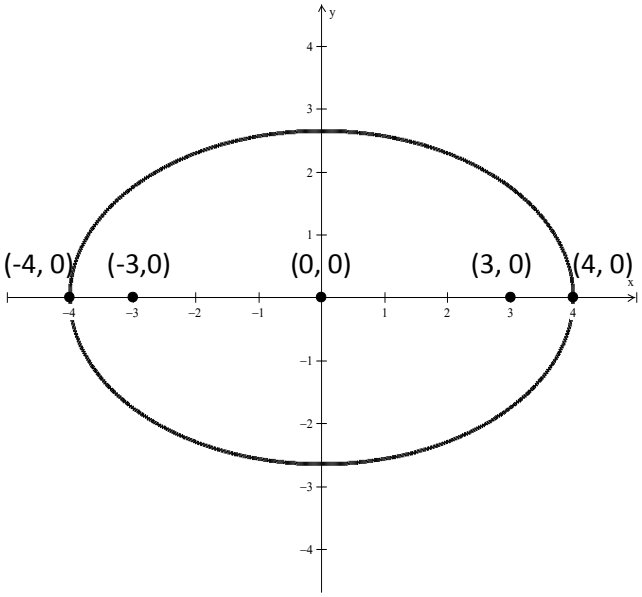
7. Length of Minor axis _____

8. Value of b _____

9. Value of b^2 _____

10. Equation in standard form _____

Given:



FIND the equation of the ellipse:

1. Center _____
2. Horizontal or vertical _____
3. Length of Major axis _____
4. Value of a _____
5. Value of a^2 _____
6. Length of Minor axis _____
7. Value of b _____
8. Value of b^2 _____

9. Equation in standard form _____