

Circles & Ellipses Quiz

Name _____

1. Write the equation of the circle with center $(6, -1)$ and radius, 7.

2. Write the equation of the circle whose center is at the origin and passes through the point $(-3, 2)$.

3. Write the equation of the ellipse in standard form and identify the major axis, vertices and foci.

Major axis: _____

Vertices: _____

$$9x^2 + 16y^2 = 144$$

Foci: _____

Write the equations of the *circle* and *ellipse* in standard form. *Circle* your answers.

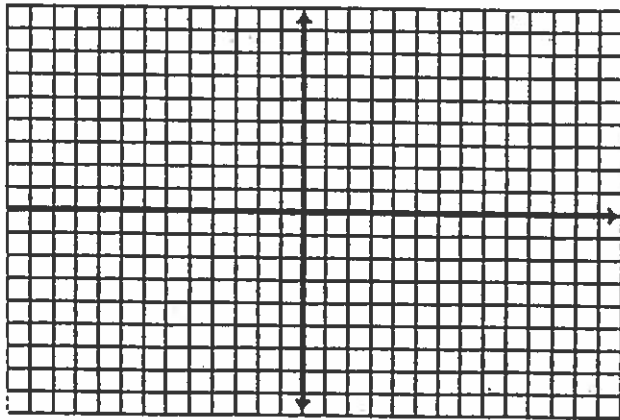
4. $x^2 + y^2 - 8x + 4y - 29 = 0$

5. $4x^2 + 9y^2 - 8x + 36y + 4 = 0$

Graph 6 & 7. Label ALL the important information.

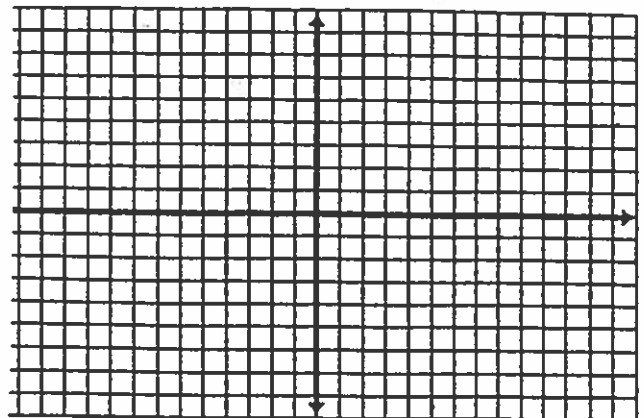
6. $(x-4)^2 + (y+2)^2 = 9$

7. $\frac{(x+1)^2}{16} + \frac{(y-3)^2}{25} = 1$



CENTER: _____

RADIUS: _____



MAJOR Axis: _____

CENTER: _____

FOCI: _____

VERTICES: _____

CO-VERTICES: _____