

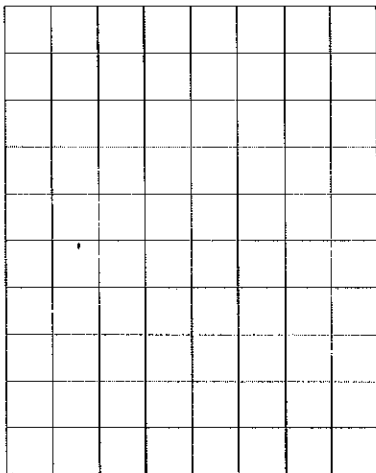
1. Find the equation of a circle with diameter endpoints (4, 5) and (6, 1).

2. Find the equation of a circle with center (5, -3) and tangent to the x-axis.

3. Find the equation of a circle with center (-4, 6) and tangent to the y-axis.

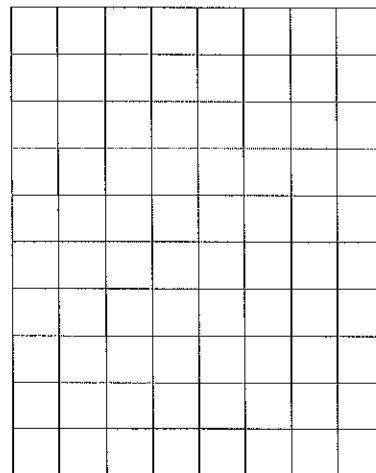
4. Find the center, radius of the circle, and graph.

$$(x - 1)^2 + (y + 3)^2 = 9$$



6. Find the center, radius, and graph of the circle.

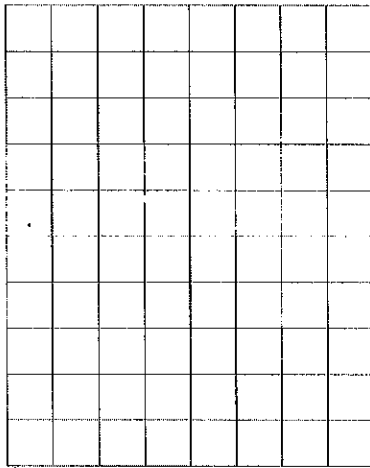
$$(x + 3)^2 + (y - 2)^2 = 4$$



5. Find the standard form of the equation of the ellipse with a horizontal major axis of length 8 and minor axis of length 4, center at $(-1, 3)$

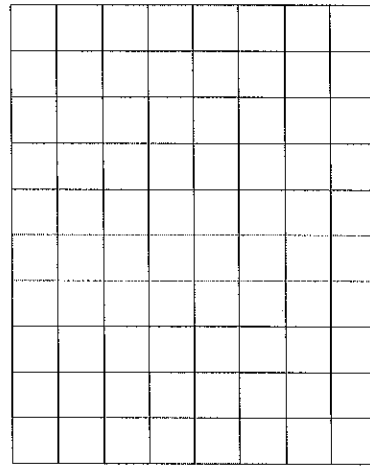
6. Find the center, vertices, co-vertices, foci, and graph of the ellipse.

$$2(x+3)^2 + 8(y-2)^2 = 32$$



8. Find the standard form of the ellipse, then find the center, vertices, co-vertices, foci, and graph.

$$9x^2 + 25y^2 - 36x - 50y - 164 = 0$$

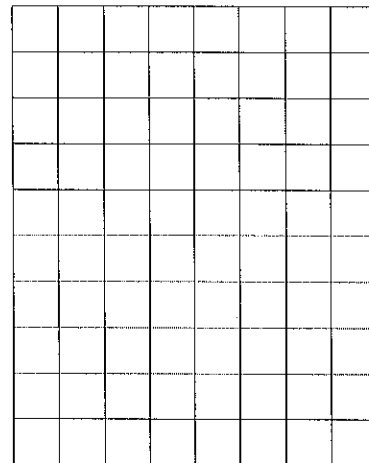


9. Write the equation in standard form.

$$4x^2 + 25y^2 - 24x + 100y + 36 = 0$$

10. Find the solution of the system of equations by graphing.

$$\begin{aligned} x^2 + y^2 &= 1 \\ x^2 + 9y^2 &= 9 \end{aligned}$$



The equation of the ellipse is $\frac{x^2}{25} + \frac{y^2}{9} = 1$. Write an equation for

