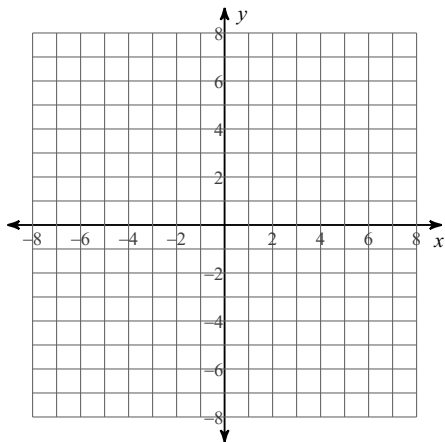


Practice Conic Sections!!!

Identify the center and radius of each. Then sketch the graph.

1) $x^2 + y^2 + 6x - 2y + 5 = 0$

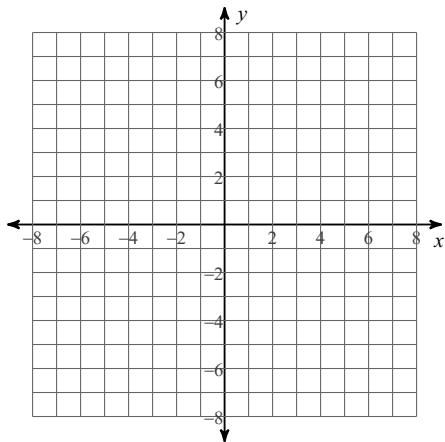


Use the information provided to write the standard form equation of each circle.

- 2) Center: (17, 3)
Point on Circle: (15, 3)

Identify the center, vertices, co-vertices, foci, and eccentricity of each. Then sketch the graph.

3) $16x^2 + 49y^2 + 196y - 588 = 0$



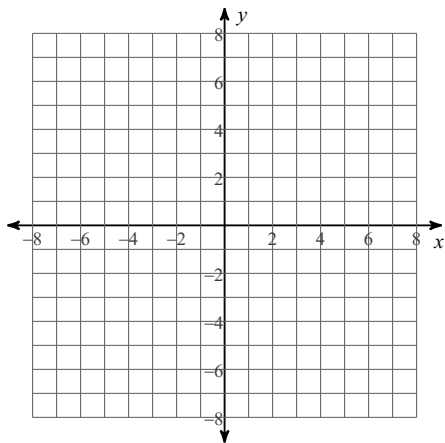
Use the information provided to write the standard form equation of each ellipse.

4) Vertices: $(-9, 13), (-9, -7)$
Foci: $(-9, 3 + \sqrt{51}), (-9, 3 - \sqrt{51})$

5) Vertices: $(21, 3), (-1, 3)$
Co-vertices: $(10, 13), (10, -7)$

Identify the vertices, foci, and asymptotes of each. Then sketch the graph.

6) $9x^2 - 16y^2 + 18x - 135 = 0$



Use the information provided to write the standard form equation of each hyperbola.

7) Vertices: $(11, -5), (-1, -5)$
Asymptotes: $y = \frac{5}{3}x - \frac{40}{3}$
 $y = -\frac{5}{3}x + \frac{10}{3}$

8) Vertices: $(-1, 7), (-1, -3)$
Conjugate Axis is 22 units long