

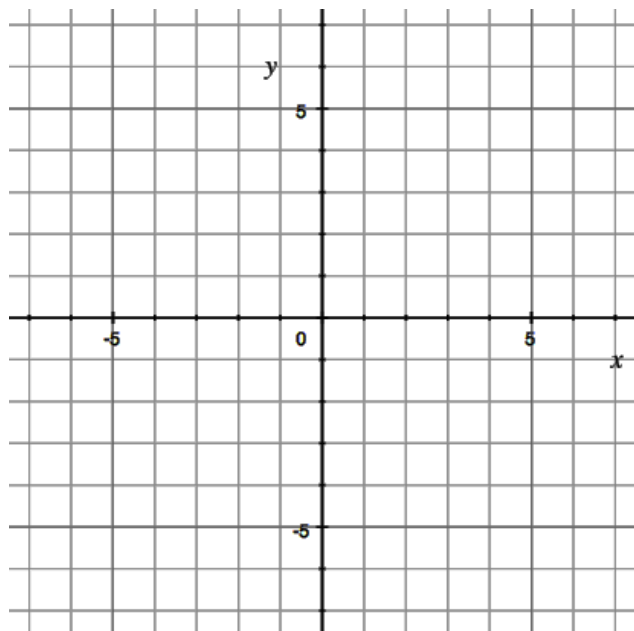
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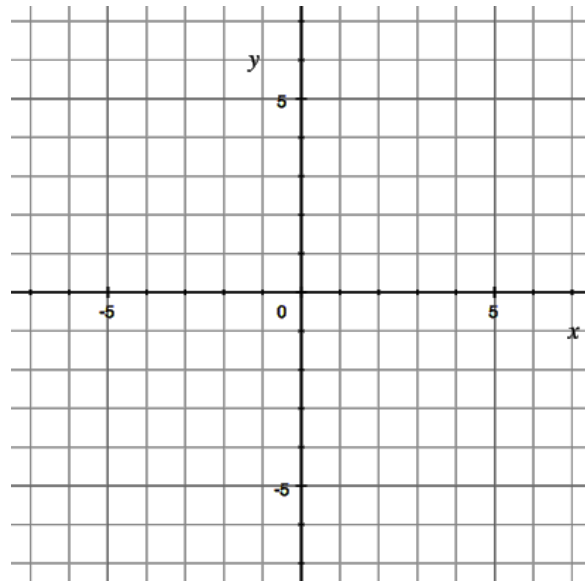
Textbook Section:

Consider $4x^2 + 9y^2 = 36$

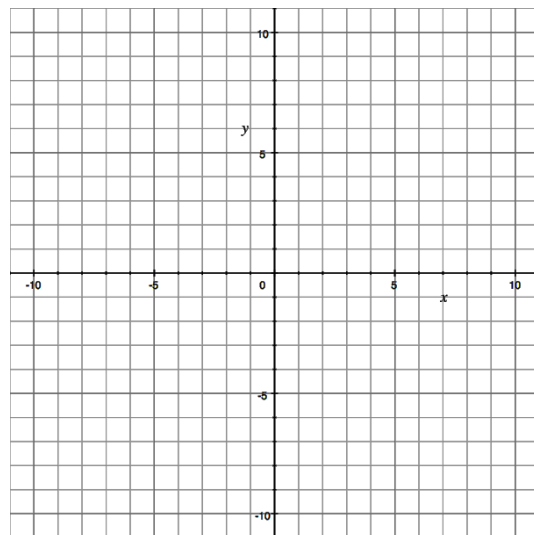


Equations:

1. Analyze and graph $\frac{(x+2)^2}{25} + \frac{(y-4)^2}{4} = 1$.

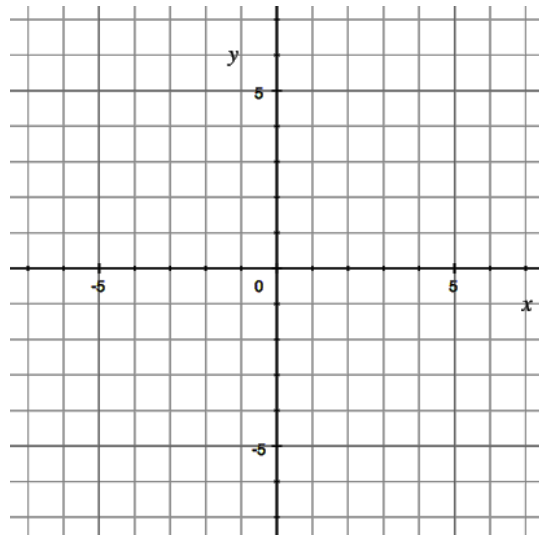


2. Analyze and graph $\frac{(x+2)^2}{4} + \frac{(y-4)^2}{25} = 1$.



3. Find the equation of the ellipse with x -intercepts $(-4, 0)$ and $(4, 0)$ and with foci $(-3, 0)$ and $(3, 0)$.

4. Sketch the graph of the ellipse given by $9x^2 - 18x + 4y^2 + 16y = 11$. Give the center, foci, and vertices.



5. Find the equation of the ellipse with center at $(1, 2)$, focus at $(2, 4)$, and which contains the point $(2, 2)$.

Eccentricity: