Here's an example, your problem is in the next column.

Problem. Find the axes and the foci. Draw the graph of

\[ 4x^2 + 8x + y^2 - 2y = -1. \]

Complete the square. Then write the equation in ellipse form. In this case \( \frac{(y \pm ?)^2}{a^2} + \frac{(x \pm ?)^2}{b^2} = 1 \) with squares on the bottom.

\[ a = ? \]  
\[ b = ? \]  
\[ c = ? \]

Center: \((0, 0) \rightarrow (-1, 1)\)

Major axis: \((-2,0)(2,0) \rightarrow (-3,1)(1,1)\)

Minor axis: \((0,-1)(0,1) \rightarrow (-1,0)(-1,2)\)

Focal points:  
\((\pm \sqrt{3}, 0) \rightarrow (-1 \pm \sqrt{3}, 1)\)

(a)(3) Axes: \((-3,1)(1,1), (-1,0)(-1,2)\)

(b)(3) Focal points: \((-1 \pm \sqrt{3}, 1)\)

(c)(9) Graph