Group:

Present:

- 1. Find the equation of an ellipse which has center at the origin, major axis of length 6 and minor axis of length 4.
- 2. Many conic sections are not functions (they fail the vertical line test). How can we view such a conic section on a graphing calculator? We may need to graph two separate pieces!
- (a) $y^2 = 2ax$ is the equation of what type of conic? Solve the equation for y: y =_____ Write the two functions that you enter into the calculator: $Y_1 =$ _____ $Y_2 =$ Viewing window for complete graph: $[,] \times [,]$ (b) $\frac{x^2}{9} + \frac{y^2}{16} = 1$ is the equation of what type of conic? Solve the equation for y: *y* = _____ Write the two functions that you enter into the calculator: $Y_2 =$ _____ $Y_1 =$ _____ Viewing window for complete graph: $[__,_] \times [__,_]$ (c) $\frac{x^2}{4} - \frac{y^2}{9} = 1$ is the equation of what type of conic? Solve the equation for y: $y = _$ Write the two functions that you enter into the calculator: $Y_1 =$ _____ $Y_2 = _$ _____ Viewing window for complete graph: $[,] \times [,]$