



Name: _____ () Class: _____ Date: _____

MA303.1.X1 – Ellipses

S1. By plotting, sketch the graph of $2x^2 + y^2 = 1$. Label the coordinates of the points of intersection with the axes.

S2. The general form of the equation of an ellipse is $\frac{(x-a)^2}{h} + \frac{(y-b)^2}{k} = 1$. Explore and explain the significance of a , b , h and k .

S3. Under what condition on the values of h and k would an ellipse become a circle?

S4. Draw the ellipse whose equation is given by $9x^2 + 4y^2 - 36x + 24y + 36 = 0$.