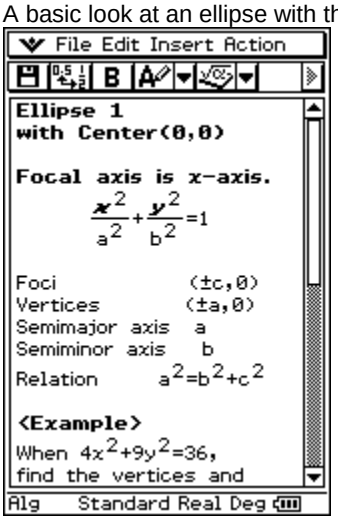
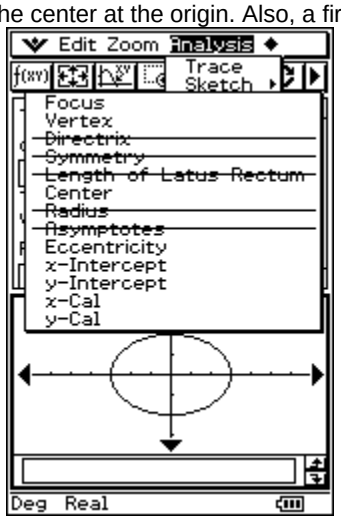
Conics - Ellipse

We explore the ellipse this time, in our continuing study of conics. Again, we put the equations in standard form, solve, and graph. If we want, we can check or find the solutions with G-Solve, a useful tool within the Conics application. To use G-Solve, tap in the conics graph window so the Analysis menu is displayed. Within Analysis is G-Solve, which contains many functions that will assist you in your work with conics. You also have the opportunity to explore (play) with this new-found functionality on your own.

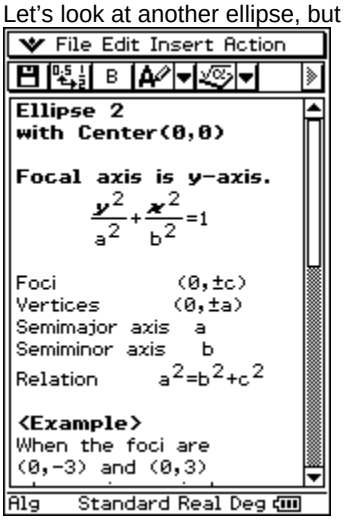
This file includes eActivities on:
Ellipse 1 x-(0,0) A basic look at an ellipse with the center at the origin. Also, a first look at G-Solve for an ellipse.
Ellipse 2 y-(0,0) Let's look at another ellipse, but this time with a vertical major axis.
Ellipse 3 x-(h,k) Not centered on the origin is no problem, just follow the steps and graph.
Ellipse 4 y-(h,k) Enter the equation (drag n' drop) into the Conics editor. In the Fit menu you will find "Fit into Conics Form". When you have the equation in Standard Form, tap the Graph button. You now have your ellipse with a vertical major axis.

Ellipse 1
A basic look at an ellipse with the center at the origin. Also, a first look at G-Solve for an ellipse.

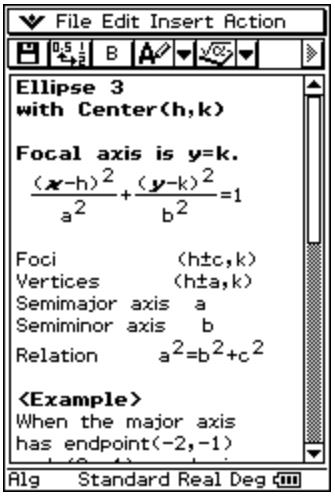




Ellipse 2
Let's look at another ellipse, but this time with a vertical major axis.



Ellipse 3
Not centered on the origin is no problem, just follow the steps and graph.



Ellipse 4

Enter the equation (drag n' drop) into the Conics editor. In the Fit menu you will find "Fit into Conics Form". When you have the equation in Standard Form, tap the Graph button. You now have your ellipse with a vertical major axis.