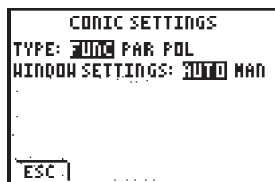
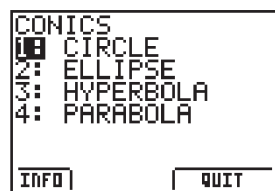


This App allows you to graph or trace circles, ellipses, hyperbolas, and parabolas and solve for the conic's characteristics.



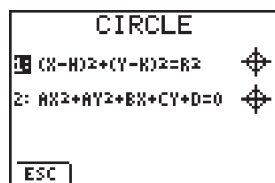
1

Select the App by pressing the **[APPS]** key and selecting Conics. If the App does not behave like this script, then press **[MODE]** and ensure the window setting is "AUTO."



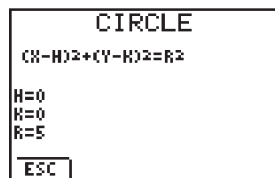
2

At the main menu, select from the conic types. The main menu allows you to use the **[ENTER]** key, number keys, or soft keys (**[Y=]** for INFO, or **[TRACE]** and **[GRAPH]** for QUIT). Press the INFO soft key and the splash screen will appear for a few seconds.



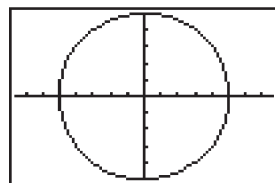
3 Circle in (X, Y) Form

Press **[ENTER]** or **[1]** to select circle. Here are the two equations for a circle in the XY form. Select Equation 1 by pressing **[1]**.



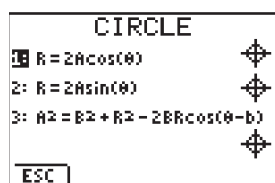
4

Enter H=0, K=0, and R=5. Press **[GRAPH]**.



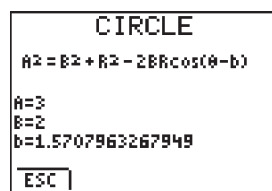
5

The circle is displayed. Press the **[CLEAR]** key to go back. Press **[TRACE]** to show the points along the curve.



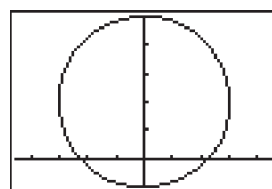
6 Circle in Polar Form

Press **[MODE]** and change the CONIC SETTINGS TYPE to "POL." Press the ESC soft key. If the equation screen of the circle is visible, the polar equations will now be displayed.



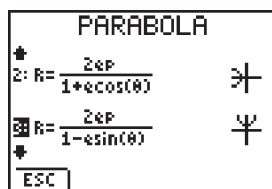
7

Note that the B and b are the polar form of the offsets. Select equation 3 and enter A=3, B=2, and b= $\pi/2$. Note that $\pi/2$ is evaluated.



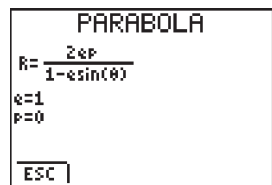
8

Press **[GRAPH]**. Then press **[TRACE]** to show the points along the curve and note the different coordinate system used.



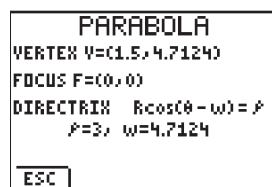
9 Parabola in Polar Form

From the circle, press the ESC soft key to return to the main menu. Press **[4]** and the parabola equations appear. Since the handheld is in polar mode, there are 4 different polar equations for the parabola. Select equation 3.



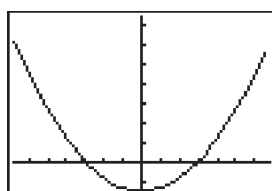
10

Fix the eccentricity of the parabola to 1. Change the P value to be 1.5 and press the **[ALPHA]** [SOLVE] key.



11

Here, the solutions to parabola specific terms are shown in polar form and also reflect radian mode. Exit the App and change the mode setting to degrees, re-enter the App and show the difference. Press the **[GRAPH]** key.



12

The graph is displayed. Press the **[TRACE]** key and use the arrows to move along the curve.