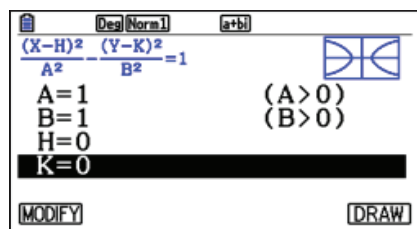
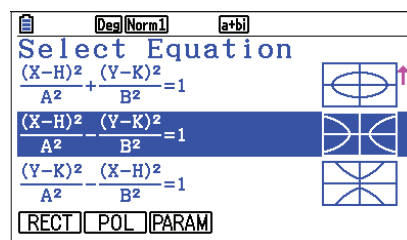
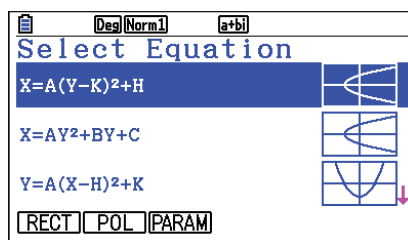
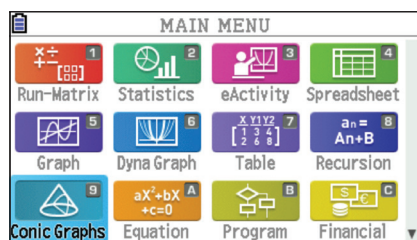


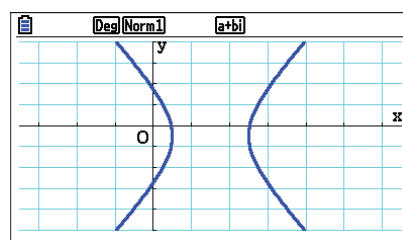
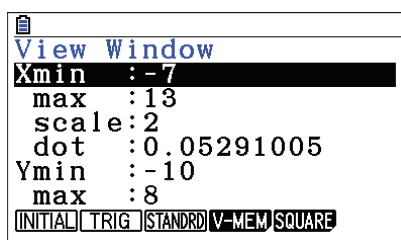
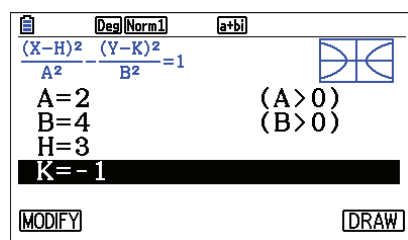
CONICS

1. Construct the graph of the conic section $\frac{(x-3)^2}{4} - \frac{(y+1)^2}{16} = 1$.

From the Main Menu, press **9**. Scroll down to the correct form and press **EXE**.

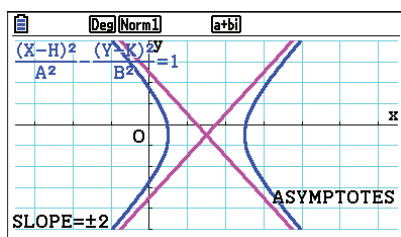
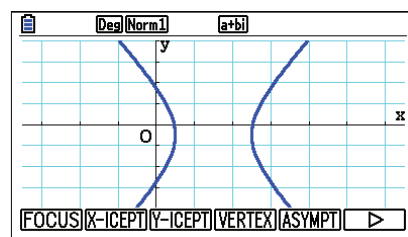


Enter the correct values. Note, the exponents in the denominators, so $A = 2$, rather than 4. Also, note the minus signs in the numerator, so $H = 3$ and $K = -1$. Press **EXE** after each value. As before, press **SHIFT** **F3** (**V-Window**) to change the values for the window, then press **EXIT**. To draw the graph, press **F6** (**DRAW**).



2. Find the asymptotes for the conic graph.

To draw the asymptotes, press **SHIFT** **F5** (**G-Solv**) **F5** (**ASYMPT**). The slope for each line is also displayed.



3. Find and label the vertices and foci for the conic graph.

To find the coordinates of the vertices, press **SHIFT** **F5** (**G-Solv**) **F4** (VERTEX). To find the coordinates of the foci, press **SHIFT** **F5** (**G-Solv**) **F1** (FOCUS). In each case, press **▶** to move to the second point. To mark points and label the coordinates on the display, press **EXE**.

