

Activity 4 - Graphing $Y=$ and $r=$ on the Same Graph

$$Y1 = 2\cos(3x)$$

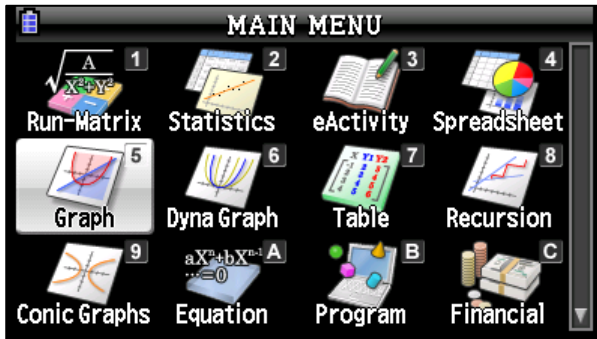
$$r = 2\cos(3\theta)$$

CASIO Domain: [-6.3, 6.3] and Range: [-3.1, 3.1] (INITIAL Setting)

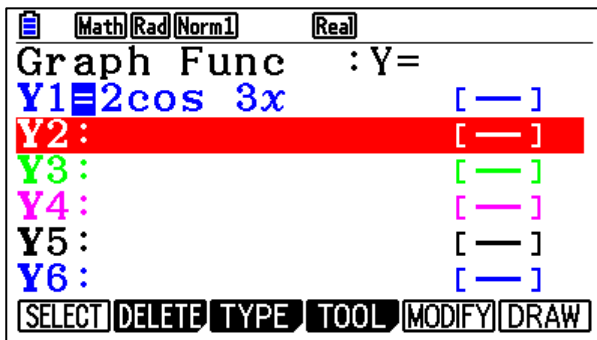
TI Domain: [-10, 10] and Range: [-10, 10]

CASIO (PRIZM)

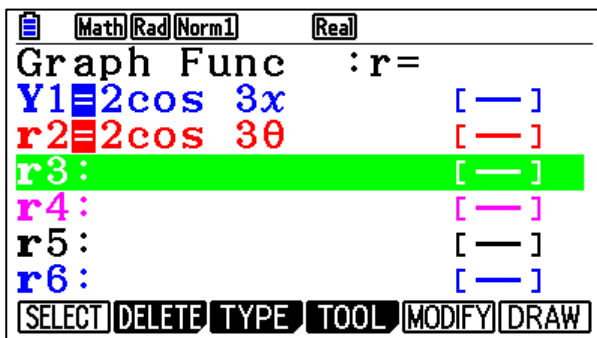
1. From the Main Menu (**MENU**), select the **GRAPH** icon by pressing **5**.



2. Enter the $Y=$ function and press **EXE** to store the function.

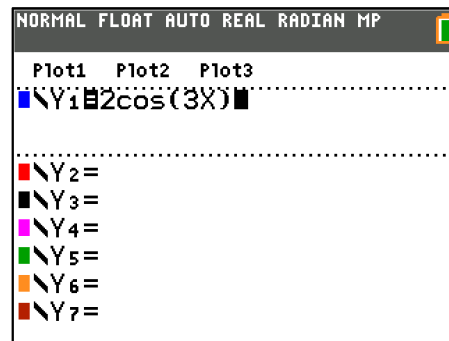


3. Press **F3** (TYPE) then **F2** ($r=$) to change $Y2$ to $r=$. Enter the $r=$ equation and press **EXE** to store the function.

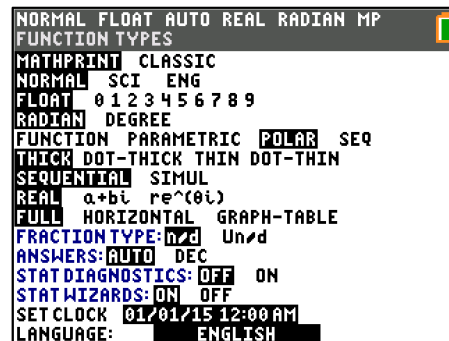


TEXAS INSTRUMENTS (84 PLUS CE)

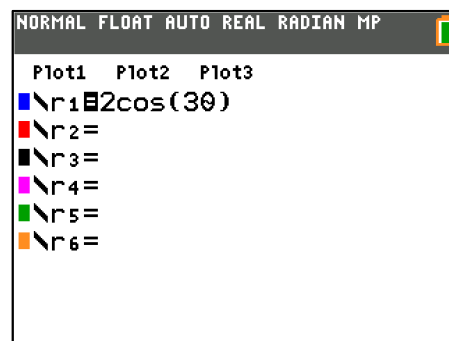
1. Press **Y=** and enter the $Y=$ function in $Y1$.



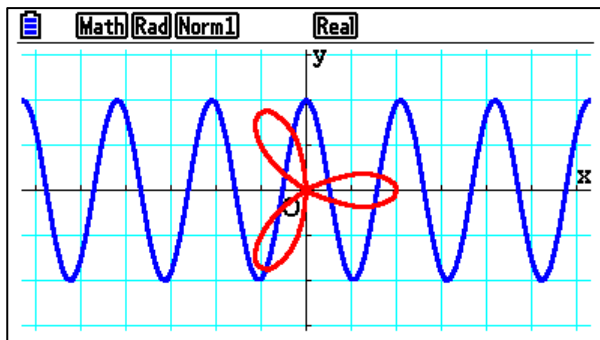
2. To enter the $r=$ equation, the mode needs to be changed. To change the mode, press **MODE** and arrow down to **FUNCTION**. Arrow over to **POLAR** and press **ENTER** to set the calculator in polar mode.



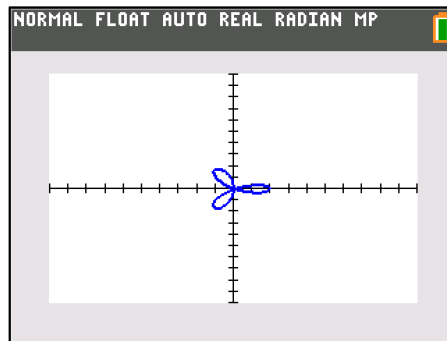
3. Press **Y=** and enter the $r=$ equation in $r1$.



4. Press **F6** (DRAW) to see the graph of both functions on the same graph.



4. Press **GRAPH**.



Ooops -only the **R=** function is displayed. To see the **Y=** function, the **MODE** must be changed.

CANNOT GRAPH BOTH Y= & R= ON SAME GRAPH.