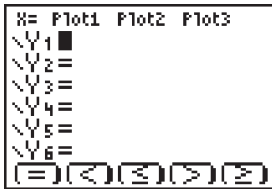


Inequality Graphing App

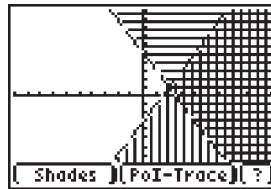
TI-84 Plus

This App makes graphing inequalities simpler for the beginning or intermediate user by giving students the opportunity to explore inequalities in greater depth. Enter inequalities using symbols and plot their graphs (including union and intersection shades). Store (x, y) coordinate pairs to lists and enter inequalities with vertical lines in an X= editor. Trace points of interest (such as intersections) between functions.



1

Press **[APPS]** and choose Inequalz. Press any key to access the inequality graphing editor. The cursor will blink over the = sign.

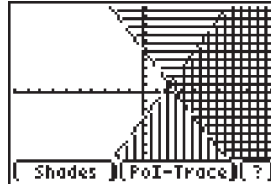


6

Press **[GRAPH]**. The graph will show all results that are less than $2x-3$ and greater than $-2x+5$. The intersection of the two functions is shaded differently.

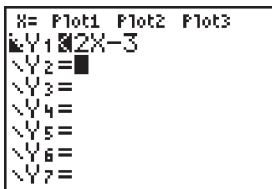
2

Press **[ALPHA]** **[WINDOW]** **[<]** to change the equals sign to a "less than" sign. (While using Inequality Graphing, use the **[ALPHA]** key to activate the soft keys. **[<]** is a soft key.)



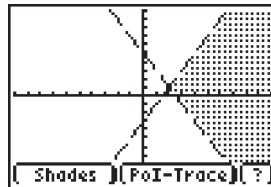
7

Examine just the intersection of these two inequalities. Press **[ALPHA]** **[Y=]** **[Shades]**.



3

Enter $Y1 < 2x-3$. (This App will shade any results that are less than this function when the function is graphed.)



8

Highlight 1:Ineq Intersection and press **[ENTER]**. The graph produced will be only the intersection of the two inequalities.

4

Press **[ALPHA]** **[TRACE]** **[>]** to change the equals sign to a "greater than" sign.

5

Enter $Y2 > -2x+5$. (The App will shade any results that are greater than this function when the function is graphed.)