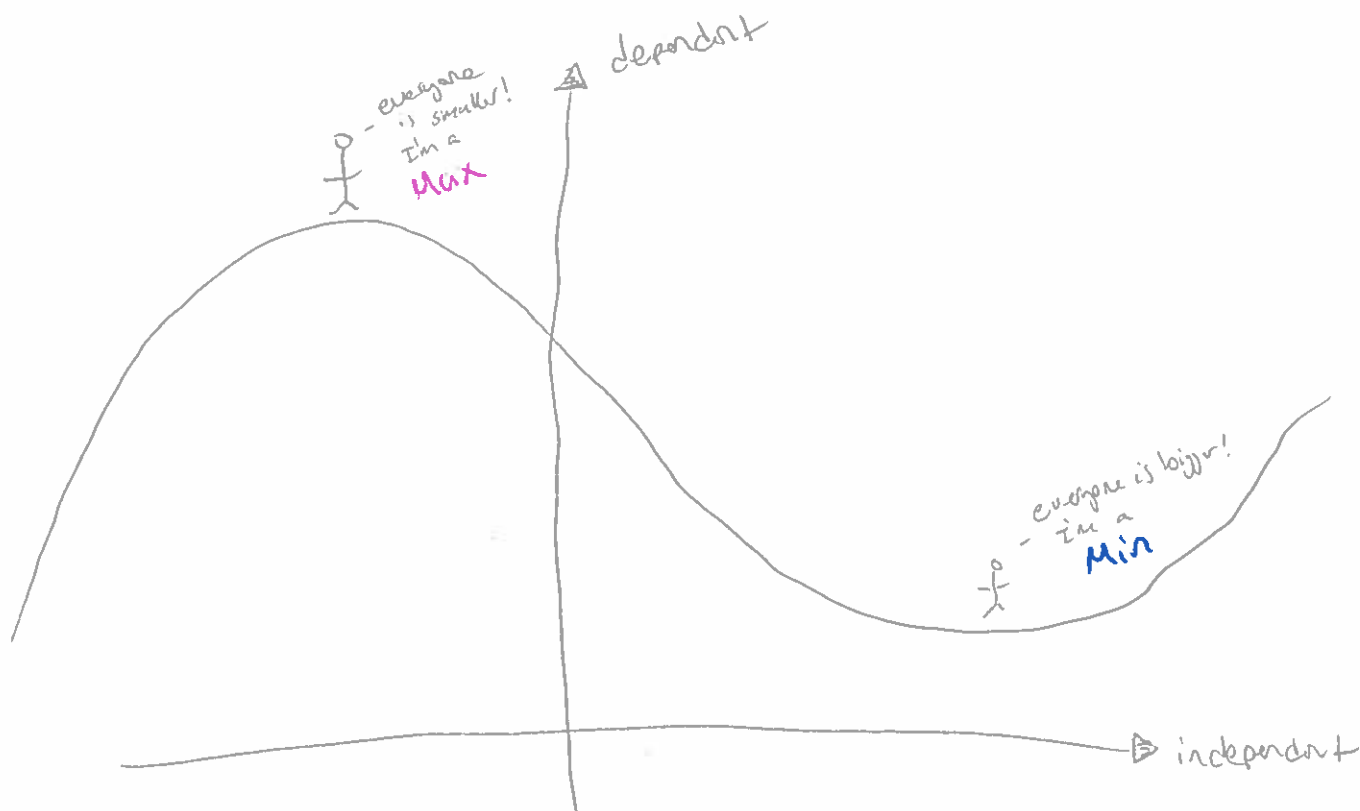


Maximum/minimum:



→ so now that we know what it looks like we can use our calculator to find them

* look we are *
meeting a lesson
* objective! *

ex

- press $y=$ button

then in one of the lines enter: $-x^2 - 2$
(that's $-x^2 - 2$)

- now press GRAPH button

hit

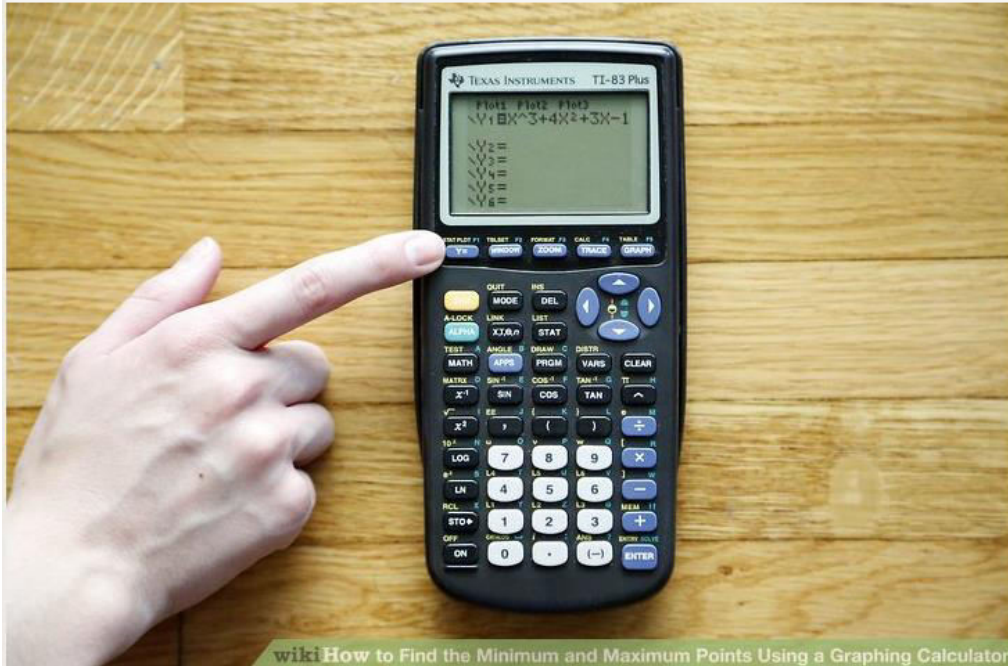
\rightarrow and \leftarrow buttons to "walk" along graph
looking for max

[Q: Is there a min?]

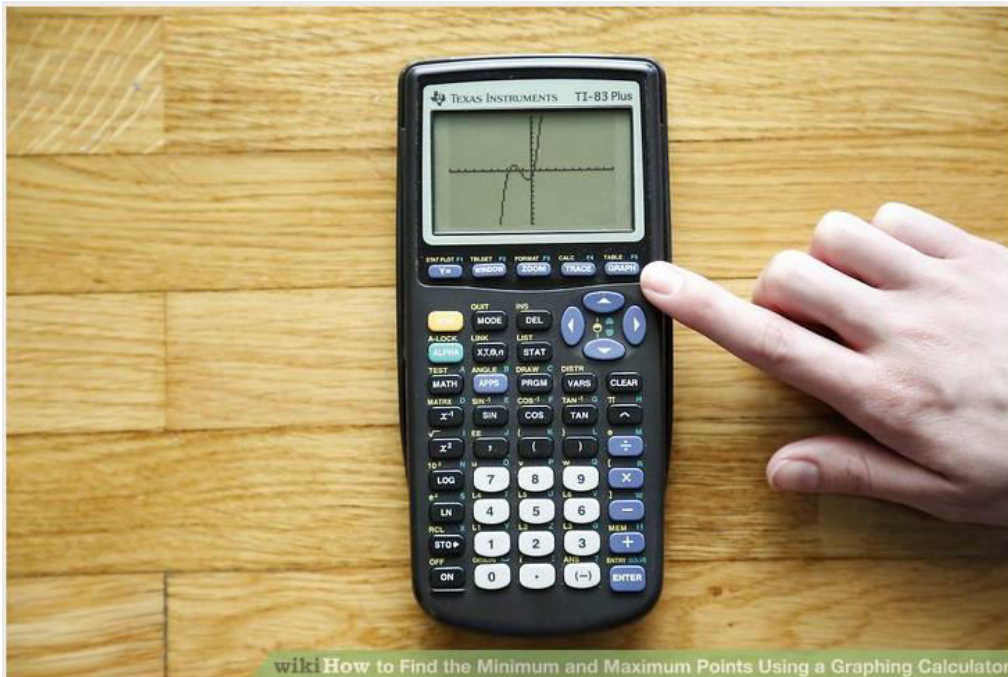
- alternatively we can hit 2^{nd} then GRAPH
and see a table ...

• see next
page for
more!

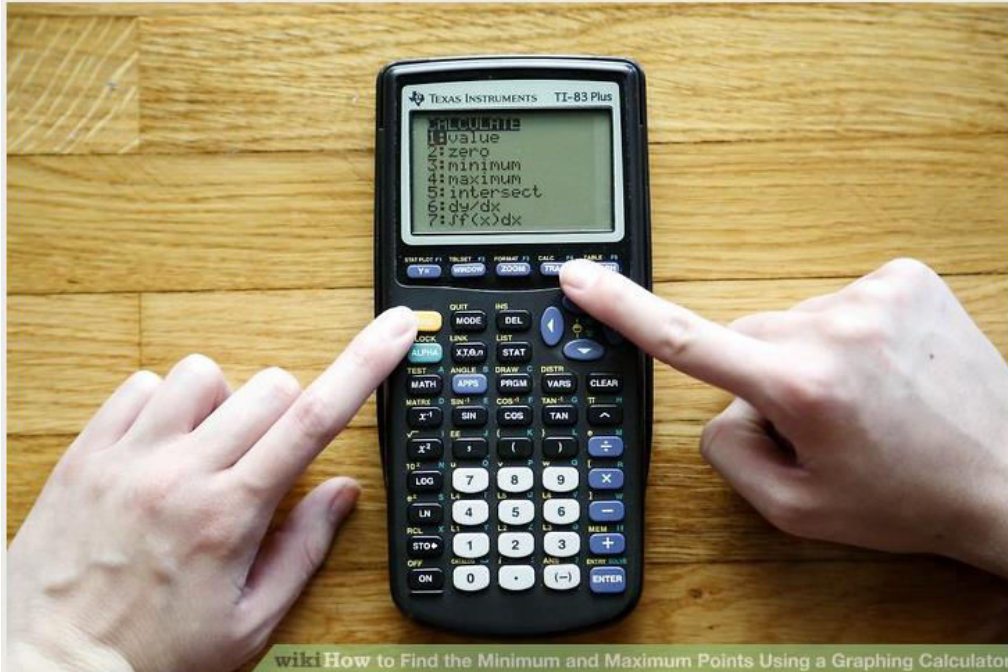
Steps



- 1 Type the equation onto your calculator after pressing "Y=". Note that the equation may be of any degree so long as it is in $y =$ form.

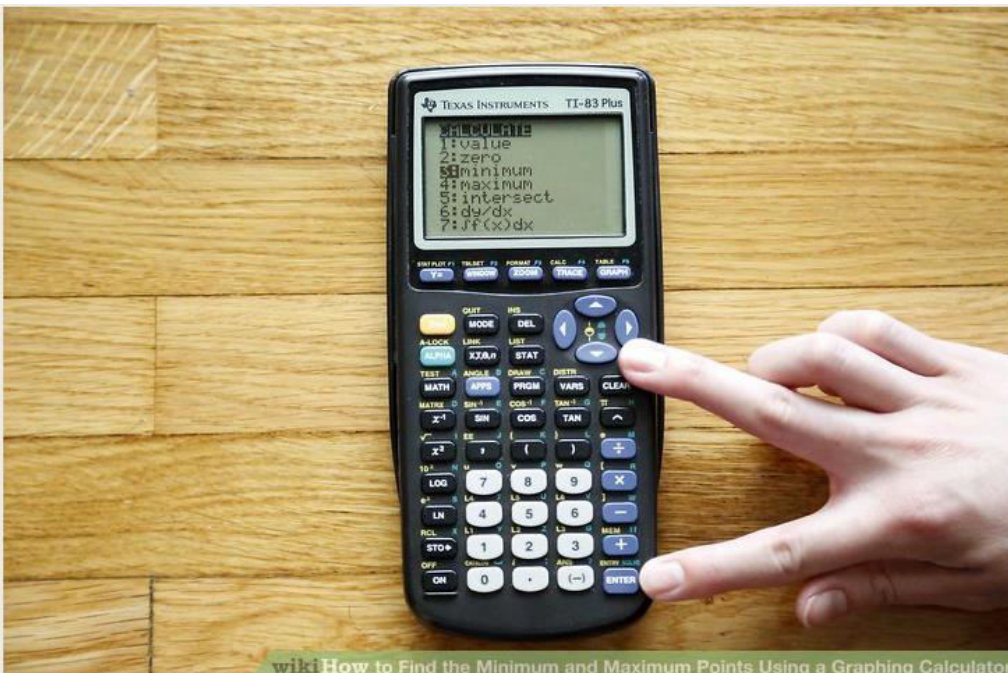


- 2 Hit graph to see your function come to life!



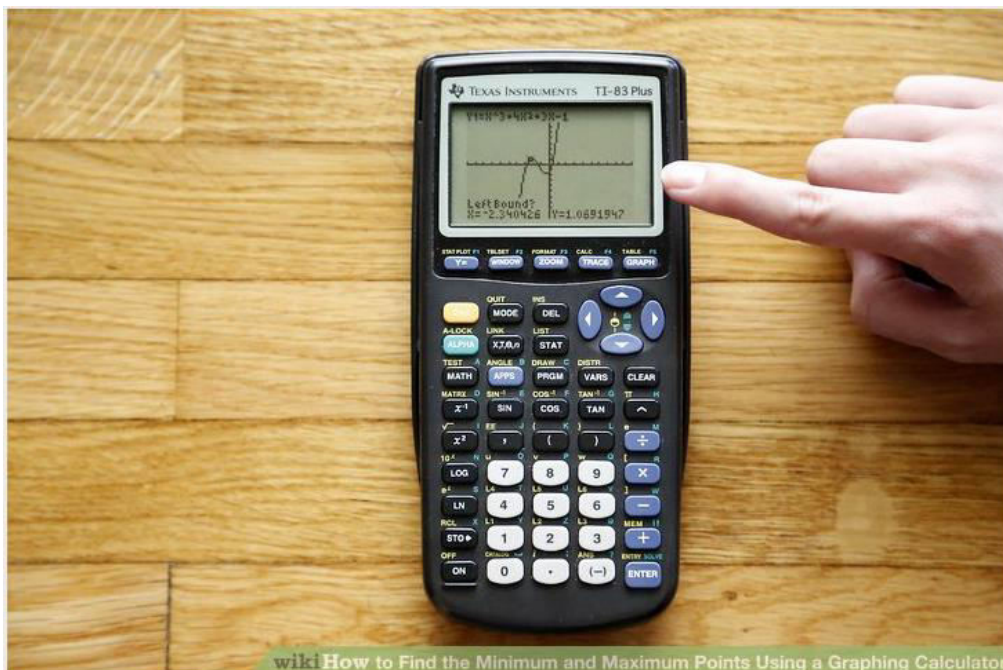
wikiHow to Find the Minimum and Maximum Points Using a Graphing Calculator

3 Press second and then "calc" (usually the second option for the Trace button).



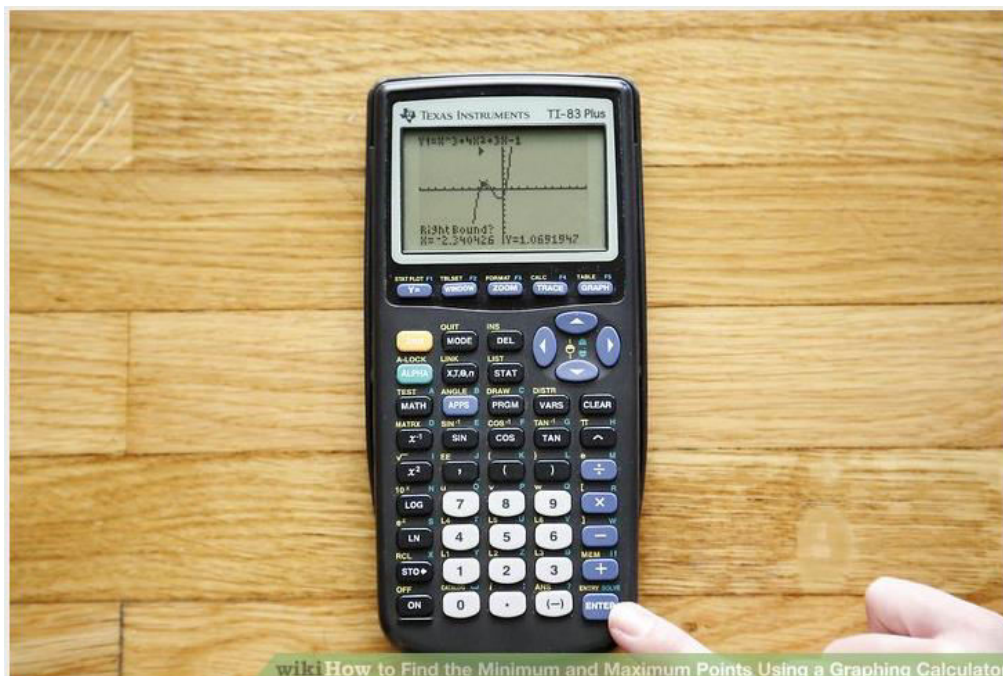
wikiHow to Find the Minimum and Maximum Points Using a Graphing Calculator

4 Press min or max. If you are trying to find a point that is lower than the other points around it, press min, if you are trying to find a point that is higher than the other points around it, press max.



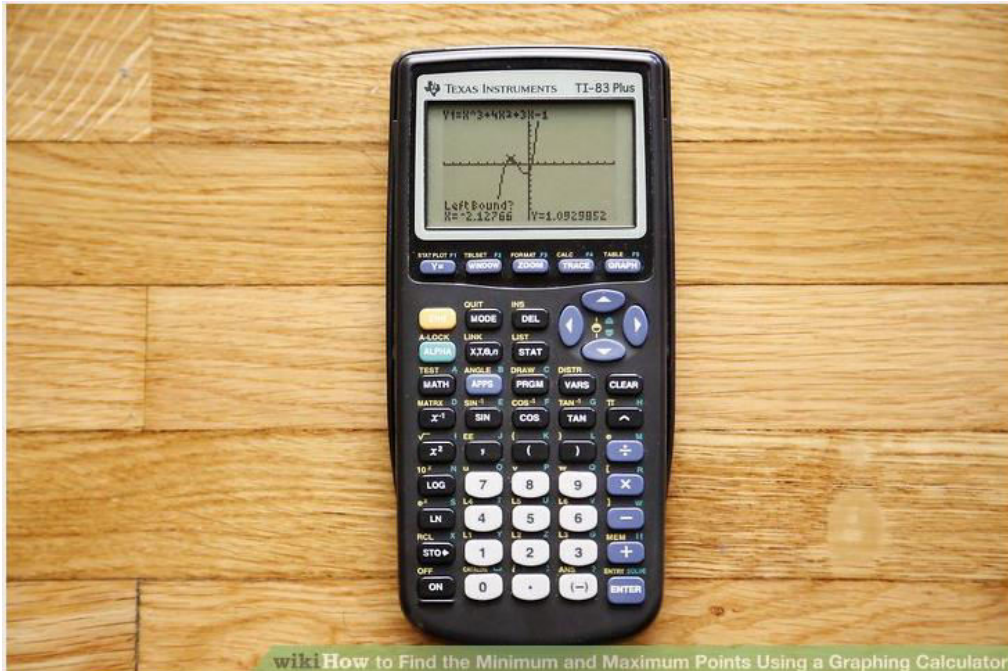
wiki How to Find the Minimum and Maximum Points Using a Graphing Calculator

5 Notice where the vertex is. This is the point you are trying to find. Your calculator will ask for the left bound that means the part of the graph to the left of the vertex, even if the cursor is on the other side of the graph it will still work. You can use the left and right arrows to move along the graph.



wiki How to Find the Minimum and Maximum Points Using a Graphing Calculator

6 Drag the cursor to the right of the vertex and press enter again.



wikiHow to Find the Minimum and Maximum Points Using a Graphing Calculator

7 Move the cursor to the vertex and press enter. you now have your minimum and maximum point