How to find a local Maximum point on the Ti-83

1. Input the function into the calculator:
   Push \( Y= \) key
   Input function beside \( Y_1 \)

2. View graph
   Push \( \text{graph} \) key

3. Find a Maximum point of the function
   Push second function and Push \( \text{Trace} \)
   Push 4 for “Maximum”
   Using the Left and Right arrows, Move the cursor to the Maximum point
   Push the Left arrow to move to the left of that point, Push Enter
   Use the Right arrow to move back to the Maximum point
   Push the Right arrow to move to the right of that point, Push Enter
   Push Enter for your “Guess”
   The calculator will give you the X and Y coordinates for the Maximum point

4. Repeat Step 3 until all Maximum points are found.

Note: To find a local Minimum point on the Ti-83, you will go through all of the steps listed above using the Minimum function instead of the Maximum function.