



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

1. Input the function into the calculator:  
Push **Y=** key  
Input function beside Y1
2. View graph  
Push **graph** key
3. Find a Maximum point of the function  
Push **second function** and Push **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.