



## How to find the Roots of a Polynomial using Graphing 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 the roots of the function  
Push **second function** and Push **Trace**  
Push **2** for the “Zero” function (which means Root)  
Using the **Left and Right arrows**, Move the cursor to the first Root  
Push the **Left arrow** to move to the left of that point, Push **Enter**  
Use the **right arrow** to move back to the root  
Push the **Right arrow** to move to right of that point, Push **Enter**  
Push **Enter** for your “Guess”  
The X value that the calculator gives you will be your root.
4. Repeat Step 3 until all roots are found.
5. If a root is also a max or a min, you will need to go through the steps for finding a max or min instead of trying to find the root.