

## **TI-83/84/plus**

### **Graph**

1. Turn on and press Y=

**\*\*make sure that the PLOT 1 at the top is not bolded\*\***

2. Type in the equation (always needs to be in y= form)

**\*\*use the  $X, T, \theta, n$  button for x\*\***

3. Press GRAPH

### **Adjust the Window**

Press WINDOW and change your scale

**\*\*Xmin & Ymin is the minimum, Xmax & Ymax is the maximum, Xscl & Yscl are the scales\*\***

OR

Press ZOOM and choose one of those options

**\*\*ZStandard makes the graphing -10 to 10 by 1 & ZoomFit makes the graph fit the equation entered**

### **Find the intersection points**

1. Graph the equation & make sure you window is correct so you can see when the graphs cross each other

2. Press 2<sup>nd</sup> and CALC

3. Press #5 intersect

4. For the "FIRST CURVE?" use the up and down arrows to make sure in the top left corner is  $Y_1$  and press ENTER

5. For the "SECOND CURVE?" use the up and down arrows to make sure in the top left corner is  $Y_2$  and press ENTER

6. For "GUESS?" use your arrows to get close to the intersection point and press ENTER

7. The x & y value answers will appear at the bottom of the screen

8. Repeat steps #2-7 for each intersection point.

### **Extras**

- For absolute value press MATH then NUM then ABS(
- For exponents use the carrot ^
- For X use the button to the right of ALPHA

### **Clearing the Graph**

1. Press Y= and then delete all of the equations listed

*Become familiar with how to do these operations and where certain keys are like squaring, square root, etc.*

## TI-Nspire

**\*\*Pressing ON will always get you back to the home screen\*\***

### **Graph**

1. Turn on, press ON for the home screen and then B for GRAPH
2. Type in the equation (always needs to be in  $y=$  form) – if there is no  $f(x)$  spot then press TAB and up/down  
**\*\*use the keyboard for x\*\***
3. Press ENTER

### **Adjust the Window**

Press MENU then #4 WINDOW then #1 WINDOW SETTINGS and change your scale

**\*\*Xmin & Ymin is the minimum, Xmax & Ymax is the maximum, Xscl & Yscl are the scales\*\***

OR

Press MENU then #4 WINDOW then any ZOOM setting

**\*\*ZStandard makes the graphing -10 to 10 by 1 & ZoomFit makes the graph fit the equation entered**

### **Find the intersection points**

1. Graph the equations as  $f_1$  and  $f_2$  (use tab to get to more functions)

Make sure you window is correct so you can see when the graphs cross each other

2. Press MENU then #6 ANALYZE GRAPH then #4 INTERSECTION
3. For the “”LOWER BOUND?” use the arrows to go to the left of the intersection point
4. For the “”UPPER BOUND?” use the arrows to go to the right of the intersection point
5. The calculator should now have the (x,y) point on the graph of the intersection.
6. Repeat steps #2-5 for each intersection point.

### **Extras**

- For absolute value press the button to the right of 9 & click the second button down or type abs(
- For exponents use ^
- For x press the letter x on the keyboard

### **Clearing the Graph**

1. Press MENU then #1 ACTIONS then #4 DELETE ALL

*Become familiar with how to do these operations and where certain keys are like squaring, square root, etc.*