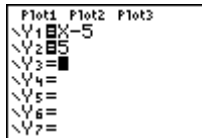


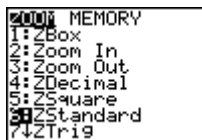
## Solving Equations Using the Calculator

### **First method:** (Graph)

1. Press  $\boxed{Y=}$  to set the equation (must use “X” as a variable)



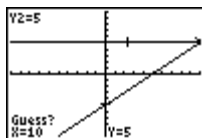
2. Press  $\boxed{ZOOM}$  6 and then  $\boxed{ZOOM}$  2 or 3 to bring focus in or out.



3. Press  $\boxed{2nd}$   $\boxed{TRACE}$  and option 5 (intersect).



4. Remember to sketch the graph and examine the window.



### **Second method:** (Table)

1. Change equations in  $\boxed{Y=}$  if necessary.
2. To set table press  $\boxed{2nd}$   $\boxed{WINDOW}$ .



3. Press **2nd** **GRAPH**

4. Find the same number for Y1 and Y2 to get X

| X    | Y1 | Y2 |
|------|----|----|
| 1    | 1  |    |
| 2    | 0  |    |
| 3    | 1  |    |
| 4    | 0  |    |
| 5    | 1  |    |
| 6    | 0  |    |
| 7    | 1  |    |
| 8    | 0  |    |
| 9    | 1  |    |
| 10   | 0  |    |
| Y1=5 |    |    |

### **Third method:** (Solver)

1. Press **MATH** then press solver.

|                            |     |     |     |
|----------------------------|-----|-----|-----|
| <b>MATH</b>                | NUM | CPX | PRB |
| 1: $\sqrt{\phantom{x}}$    |     |     |     |
| 2: $\sqrt[n]{\phantom{x}}$ |     |     |     |
| 3: $\frac{1}{x}$           |     |     |     |
| 4: $\frac{1}{x^2}$         |     |     |     |
| 5: $\frac{1}{x^3}$         |     |     |     |
| 6: fMin(                   |     |     |     |
| 7: fMax(                   |     |     |     |
| 8: nDeriv(                 |     |     |     |
| 9: fnInt(                  |     |     |     |
| 10: Solver...              |     |     |     |

2. Change the equation if necessary (use any variable)

|                        |
|------------------------|
| <b>EQUATION SOLVER</b> |
| eqn: 0=X-5-5           |

3. Place cursor on “X=” then press **ALPHA** **ENTER**

|                    |
|--------------------|
| X-5-5=0            |
| X=10               |
| bound=(-1E99, 1... |