## **Solving Equations Graphically on the CALCULATOR**

Step 1) Write the equation to be solved in zero form. (That is, use algebra to get all to the terms to one side and zero on the other.)

Step 2) Construct a function from the terms, enter it into the function editor window and GRAPH it in the Standard Viewing Window.

Step 3) Adjust the XMin and XMax values so that all of the *x*-intercepts can be seen.

Step 4)			
	TI 83/84	TI 85/86	TI 89/92
	Press 2 <sup>nd</sup> CALC	With the GRAPH menu bar showing	Press F5
	Select: zero	Y = WIND ZOOM TRACE GRAPH press MORE MATH ROOT	Select: Zero
	Choose an <i>x</i> -intercept and use the left ( ◀) or right (►) arrow keys to move the trace bug so that it is to the left of the intercept. Press ENTER Move the trace bug so that it is to the right of the intercept.	Choose an <i>x</i> -intercept and use the left ( $\triangleleft$ ) or right ( $\triangleright$ ) arrow keys to move the trace bug so that it is to the left of the intercept. Press ENTER Move the trace bug so that it is	Choose an <i>x</i> -intercept and use the left ( ◀) or right (▶) arrow keys to move the trace bug so that it is to the left of the intercept. Press ENTER Move the trace bug so that it is to the right of the intercept.
	Press ENTER Press ENTER (again) The zero appears. This is one solution to the original equation.	to the right of the intercept. Press ENTER Press ENTER (again) The root appears. This is one solution to the original equation.	Press ENTER The zero appears. This is one solution to the original equation.