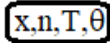


TI-83+ and TI-84+ Equation Solver Instructions

<p>Put the equation you wish to solve in “zero-equal” form. For example: $2x + 3 = 4x^2 - 8$ is re-written as</p> $0 = -2x - 3 + 4x^2 - 8$ <p>Press MATH and use ▲ to scroll through list to 0: Solver...</p>	<p><u>Figure 1</u></p> <pre>-5x + 40 x = 8 bound (Ignore) left (Ignore)</pre>
<p>If the solver has been previously used, you will see a screen similar to the one shown in Figure 1. If this is the case, press ▲ and CLEAR to delete the old equation. You should then see the screen shown in Figure 2.</p>	<p><u>Figure 2</u></p> <pre>EQUATION SOLVER eqn: 0 =</pre>
<p> Type in the equation, using this key to embed the x-variable in your equation, which should look like the one shown in Figure 3 when you’re done, then press ENTER.</p>	<p><u>Figure 3</u></p> <pre>EQUATION SOLVER eqn: 0 = -2x -3 + 4x^2 - 8</pre>
<p>Figure 4 shows what should appear after pressing ENTER. Whatever number for x that is left over from a previous use of the solver feature will appear. In this case, the leftover value is “8.” The cursor will be blinking on the leftover value. Enter a “guess” for the solution you’re seeking. I recommend you use a large positive guess such as 99. This is shown in Figure 5. The guess is often referred to as the “seed” from which the solution is grown:</p> <p>Observe the flashing cursor at the right of the guessed value of 99. Now press ALPHA SOLVE. Figure 6 shows what should appear: the solution.</p>	<p><u>Figure 4</u></p> <pre>-2x - 3 + 4x^2 - 8 = 0 x = 8 (blinking cursor)</pre> <p><u>Figure 5</u></p> <pre>-2x - 3 + 4x^2 - 8 = 0 x = 99 (flashing cursor)</pre>
<p>The solution is $x = 0.85$ (rounded to one-hundredth)</p> <p>Note: the equation we solved is quadratic, so there are <i>two</i> solutions. If you repeat the above, but use -99 instead of 99, the second of the two solutions will appear:</p> $x = -2.35$	<p><u>Figure 6</u></p> <pre>-2x - 3 + 4x^2 - 8 = 0 x = .85078.... bound (ignore) left (ignore)</pre>