


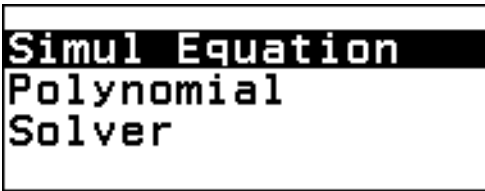
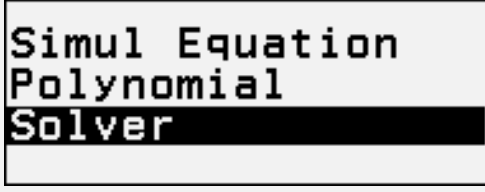

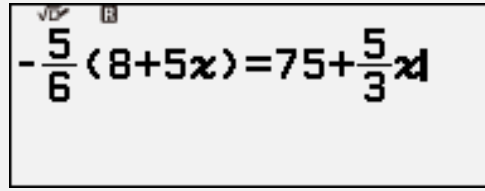
Unit 4: Lesson 6 – Strategic Solving

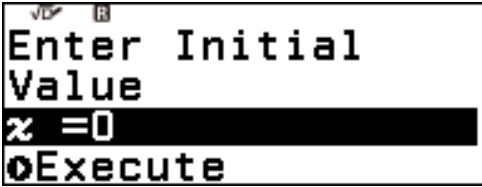
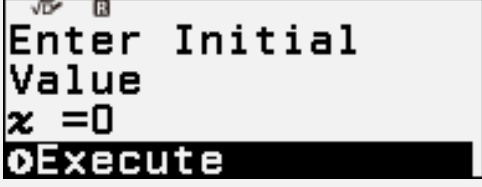
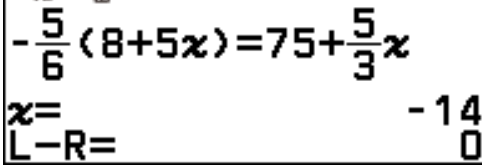

Activity 6.3: Which Would You Rather Solve?

Skill: Use the Equation app to check your solution to an equation solved algebraically.

Activity Summary:

Students need to know how to solve a variety of linear equations algebraically. Students are given a list of equations and asked to choose 3 that are the least difficult to solve, and 3 that are the most difficult to solve. They choose 3 equations to solve; at least one from the least difficult list and one from the most difficult list. Students can check their answers using the Equation app on the calculator.

<p>1. Turn on the calculator with the On button. Press Home and then use the arrows to highlight the Equation app.</p>	
<p>2. Press either OK or EXE to open the Equation app. <u>Simul Equation</u> will solve systems of equations. <u>Polynomial</u> will solve 2nd, 3rd, and 4th degree polynomial equations for all real and imaginary solutions.</p>	
<p>3. We will use the Solver to check solutions to the equations solved in this activity. Press the down arrow, ▽, twice to highlight Solver.</p>	
<p>4. Press either OK or EXE to open the equation solver.</p>	
<p>5. Now enter the equation to check. It will be easier to replace any variable with x as the other letter choices are limited. (A-F, x-z)</p> <p>Keystrokes for Equation A: \uparrow \ominus $\frac{\square}{\square}$ 5 ∇ 6 \triangleright (8 + 5 \otimes) \uparrow (7 5 + $\frac{\square}{\square}$ 5 ∇ 3 \triangleright \otimes</p>	

<p>6. Once you have finished entering the equation, press either OK or EXE.</p>	
<p>7. Enter a starting value, and press either OK or EXE. (Note: if you are solving an equation with multiple answers, the initial value will matter.)</p>	
<p>8. Press either OK or EXE to solve the equation. The solution for <u>Equation A</u> is b = -14.</p>	
<p>9. To solve a different equation, the easiest way is to press the Home key ⏠ and select the Equation app again. Another way is to press the Back key ⏪ to go back to the Input Equation window.</p>	
<p>10. Repeat the steps above for the other equations. The calculator will solve equations using any of the available variables. For example, for <u>Equation F</u> the variable “C” (↑ Ⓢ) can be used instead of using the variable x. The solution to <u>Equation F</u> is c = 0.</p>	