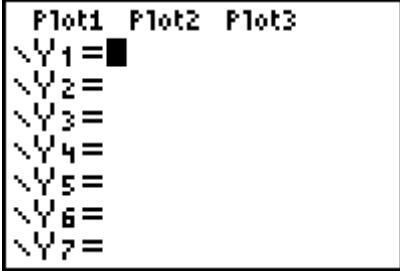
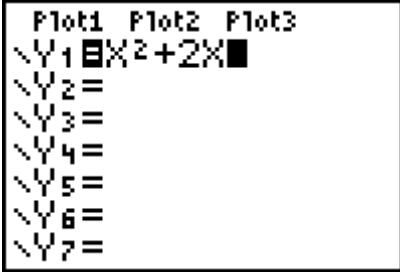
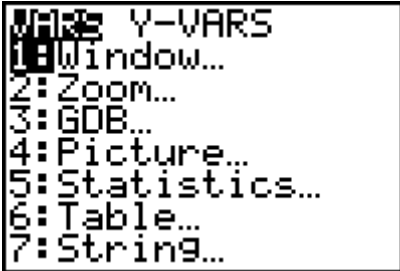
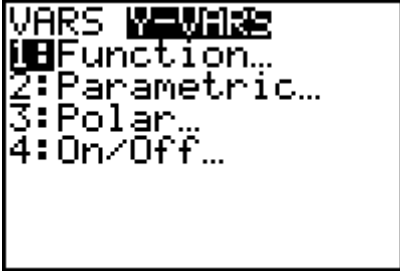


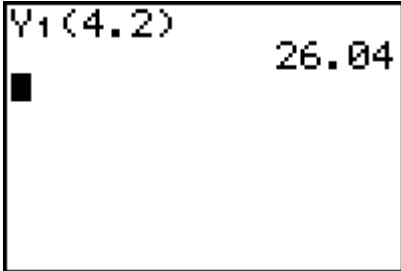
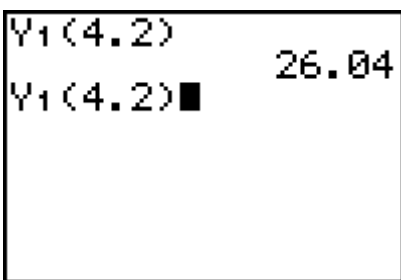


## Function Notation on a TI Graphing Calculator

If  $f(x) = x^2 + 2x$ , find the function values  $f(4.2)$  and  $f(10.8)$ .

<ol style="list-style-type: none"> <li>1. Turn the calculator on by pressing <b>[ON]</b>.</li> <li>2. Press <b>[Y=]</b> to equation editor. This is where we will place the function's formula.</li> </ol>	 <pre> Plot1 Plot2 Plot3 \Y1= \Y2= \Y3= \Y4= \Y5= \Y6= \Y7= </pre>
<ol style="list-style-type: none"> <li>3. Press <b>[X,T,θ,n]</b><b>[x<sup>2</sup>]</b><b>[+]</b><b>[2]</b><b>[X,T,θ,n]</b> on the line \Y1. You could also press <b>[X,T,θ,n]</b><b>[^]</b><b>[2]</b><b>[+]</b><b>[2]</b><b>[X,T,θ,n]</b> to put in the formula. The <b>[^]</b> key can be used to insert any power.</li> </ol>	 <pre> Plot1 Plot2 Plot3 \Y1=X^2+2X \Y2= \Y3= \Y4= \Y5= \Y6= \Y7= </pre>
<ol style="list-style-type: none"> <li>4. Press <b>[2nd]</b><b>[MODE]</b> to exit the equation editor. The function's formula is now entered in the calculator. To use it, we'll need to use the calculator's name for it, Y1.</li> <li>5. From the Homescreen (you should be there after pressing <b>[2nd]</b><b>[MODE]</b>), press the <b>[VARS]</b> button. The menus under this button allow you to access the different function and variable names on the calculator.</li> </ol>	 <pre> VARS Y-VARS 1:Window... 2:Zoom... 3:GDB... 4:Picture... 5:Statistics... 6:Table... 7:String... </pre>
<ol style="list-style-type: none"> <li>6. Use the <b>[▶]</b> button to highlight Y-VARS.</li> </ol>	 <pre> VARS Y-VARS 1:Function... 2:Parametric... 3:Polar... 4:On/Off... </pre>

## Function Notation on a TI Graphing Calculator

<p>7. Press <b>ENTER</b> or <b>1</b> to select Function. This gives you access to the different function names Y1, Y2, ect.</p>	
<p>8. Select 1: Y1 by pressing <b>ENTER</b> or <b>1</b> since the function was stored in Y1 in the equation editor.</p>	
<p>9. Press <b>(4)(.) (2) ENTER</b>.</p> <p>10. The calculator will calculate the value <math>f(4.2) = 26.04</math>.</p>	
<p>11. To calculate another function value, we'll recall the previous entry and edit it. This way we can avoid repeating all of the steps above. Press <b>2nd ENTER</b> to recall the line you just calculated.</p>	
<p>12. Use the arrow keys <b>←</b> <b>→</b> to move the cursor to the 4. Press <b>10.</b> so that you see Y1(10.).</p> <p>13. We need to insert an 8 between the decimal point and the parentheses. To insert a character in front of the cursor, press <b>2nd DEL</b>. Now press <b>8</b> so that you see Y1(10.8) on the screen.</p> <p>14. Press <b>ENTER</b> to calculate the new function value.</p>	