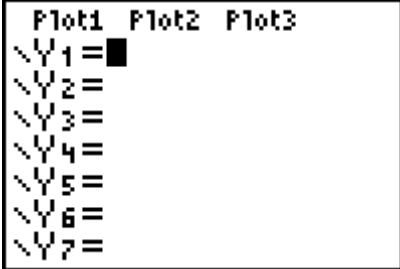
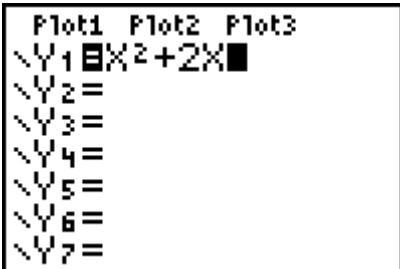

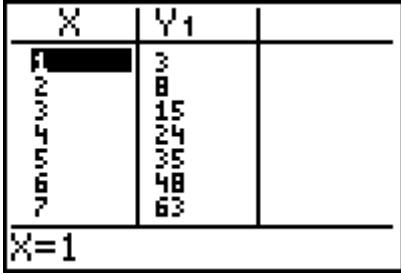

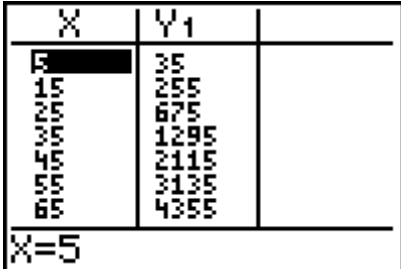


Make a Table from a Formula on a TI Graphing Calculator

Make tables for the function $f(x) = x^2 + 2x$ for $x = 1, 2, 3, \dots$ and $x = 5, 15, 25, \dots$

<ol style="list-style-type: none"> 1. Turn the calculator on by pressing [ON]. 2. Press [Y=] to equation editor. This is where we will place the function's formula. 	
<ol style="list-style-type: none"> 3. Press [X,T,θ,n][x²][+][2][X,T,θ,n] on the line \Y1. You could also press [X,T,θ,n][^][2][+][2][X,T,θ,n] to put in the formula. The [^] key can be used to insert any power. 	
<ol style="list-style-type: none"> 4. Press [2nd][MODE] to exit the equation editor. 5. Press [2nd][WINDOW] to enter the TABLE SETUP screen. This screen allows you to change the starting x value of the table (TblStart) and the increments by which x values change in the table (ΔTbl). You can also choose to have the x values (Indpnt) or y values (Depend) generated automatically. Choosing Ask allows you to put in the x or y values yourself. 6. Change the values on this screen so that they look like the ones to the right. If you need to change from Auto to Ask or Ask to Auto, use the arrow keys to move to the entry you want to highlight. Then press [ENTER] to highlight your choice. By setting up the table like this, you will automatically generate the x and y values for 	

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$f(x) = x^2 + 2x$ for $x = 1, 2, 3, \dots$																	
<p>7. Press 2ndGRAPH to see the table.</p>	 <table border="1" data-bbox="992 285 1390 558"> <thead> <tr> <th>X</th> <th>Y1</th> </tr> </thead> <tbody> <tr><td>1</td><td>3</td></tr> <tr><td>2</td><td>8</td></tr> <tr><td>3</td><td>15</td></tr> <tr><td>4</td><td>24</td></tr> <tr><td>5</td><td>35</td></tr> <tr><td>6</td><td>48</td></tr> <tr><td>7</td><td>63</td></tr> </tbody> </table> <p>X=1</p>	X	Y1	1	3	2	8	3	15	4	24	5	35	6	48	7	63
X	Y1																
1	3																
2	8																
3	15																
4	24																
5	35																
6	48																
7	63																
<p>8. Let's try changing the table a bit to see how we can use the TABLE SETUP effectively. Press 2ndWINDOW again.</p> <p>9. Change TblStart to 5 and ΔTbl to 10.</p>	 <pre> TABLE SETUP TblStart=5 ΔTbl=10 Indent: Auto Ask Depend: Auto Ask </pre>																
<p>10. Press 2ndGRAPH to see the new table. Notice how this table starts at $x = 5$ and increases the x values by increments of 10.</p>	 <table border="1" data-bbox="992 867 1390 1134"> <thead> <tr> <th>X</th> <th>Y1</th> </tr> </thead> <tbody> <tr><td>5</td><td>35</td></tr> <tr><td>15</td><td>255</td></tr> <tr><td>25</td><td>675</td></tr> <tr><td>35</td><td>1295</td></tr> <tr><td>45</td><td>2115</td></tr> <tr><td>55</td><td>3135</td></tr> <tr><td>65</td><td>4355</td></tr> </tbody> </table> <p>X=5</p>	X	Y1	5	35	15	255	25	675	35	1295	45	2115	55	3135	65	4355
X	Y1																
5	35																
15	255																
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