



Calculator Appendix F



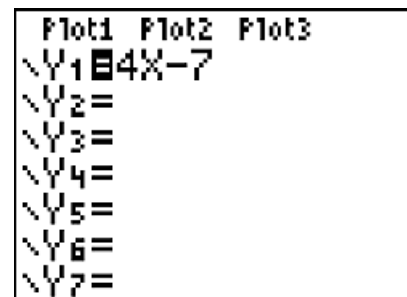
Evaluating a function at a particular x position

We will consider the linear function $f(x) = 4x - 7$ being evaluated at $x = 3$. The answer is:

$$f(3) = 4(3) - 7 = 5$$

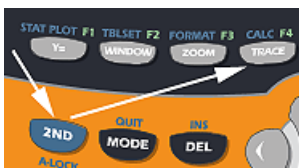
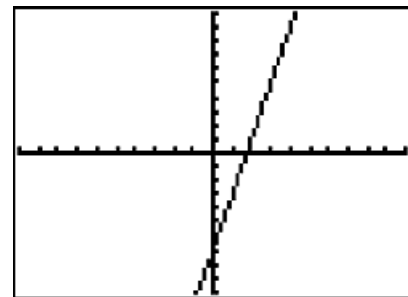


To obtain this answer on a graphing calculator, press the **Y=** button and enter **Y1** as $4x - 7$.

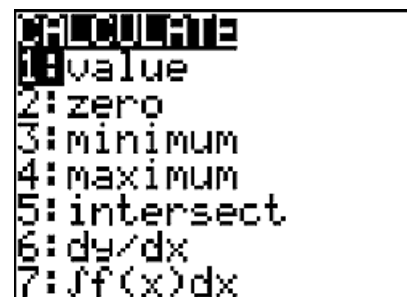


Now press the **GRAPH** button.

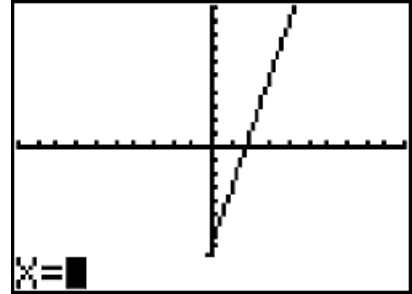
The graph of this function displays.



To evaluate this function at a particular value of x , press **2nd Calc** and this menu results. Choose **1. Value**



At the bottom of the display an $x =$ appears inviting us to enter the x value at which we want the function evaluated. Enter **3** and then press **ENTER**.



Finally, we get this display and at the bottom where we see the answer, $Y = 5$. Also notice that an x marks the place on the graph of the function at which the function is being evaluated.

