

Graphing Technology Lab

Representing Functions

Casio FX-9750G

You can use Casio FX-9750G technology to explore the different ways to represent a function.

ACTIVITY 1

Graph $f(x) = 2x + 3$ on the Casio FX-9750G graphing calculator.

Clear the calculator memory first.

Select MEM from the Main Menu \blacktriangledown Reset **F1**.

Step 1 From the main menu, select GRAPH.

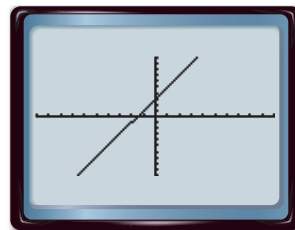
KEYSTROKES : **MENU** 5



Step 2 Enter the equation, set the viewing window, and graph.

KEYSTROKES : 2 **X,θ,T** + 3 **EXE**

SHIFT [V-Window] **F3** **EXE** **F6**



$[-10, 10]$ scl: 1 by $[-10, 10]$ scl: 1

Step 3 Represent the function as a table using the TABLE option.

KEYSTROKES : **MENU** 7 **F6**

Use **F5** and **F6** to switch between table and graph.

The calculator screen displays a table with two columns: X and Y1. The table contains five rows of data. At the bottom of the screen, there are several function keys: FORM, DEL, ROW, EDIT, G-COM, and G-PLT.

X	Y1
1	5
2	7
3	9
4	11

Analyze the Results

Graph each function. Make a table of five ordered pairs that also represents the function.

1. $g(x) = -x - 3$

2. $h(x) = \frac{1}{3}x + 3$

3. $f(x) = -\frac{1}{2}x - 5$

4. $f(x) = 3x - \frac{1}{2}$

5. $g(x) = -2x + 5$

6. $h(x) = \frac{1}{5}x + 4$