

A Brief Guide to Graphing Functions Using the TI-82 Calculator

<p>Turning the TI-82 ON</p> <ul style="list-style-type: none"> • Press [ON] in the bottom left corner to turn the TI-82 on. • Press [2nd] (the bright blue key), then press [+] to display the memory menu. • Press [3] to select RESET. The Reset Memory menu is displayed. • Press [2] to select RESET. The TI-82 is reset. 	<p>Turning the TI-82 OFF</p> <p>Press [2nd], then press [OFF]</p> <p>Setting the display contrast</p> <ul style="list-style-type: none"> • If the screen is very dark, very faint, or totally blank, you need to adjust the contrast. • Press [2nd], then press and hold [↓] to make the display lighter or [↑] to make the display darker.
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Set the MODE to Func graphing

- Press [MODE]. In the fourth line, use the arrow keys to select **Func** if not already highlighted. Press [ENTER]. You will need to do this just once.

<p>Define the viewing WINDOW</p> <ul style="list-style-type: none"> • Press [WINDOW] • Define values for each of the following variables: Xmin, Xmax, Xscl, Ymin, Ymax, Yscl <p>To leave the WINDOW edit screen</p> <ul style="list-style-type: none"> • Select another screen by pressing an appropriate key, [GRAPH] or [Y=] • Press [2nd], [QUIT] 	<p>Set the WINDOW FORMAT</p> <ul style="list-style-type: none"> • Press [WINDOW], [→]. The current settings are highlighted. • Move the cursor to the row of the settings you want to change. The setting the cursor is on blinks. • Move the cursor to the setting you want, press [ENTER] <p>GridOff GridOn does not display / does display the grid points</p>
<p>Defining functions in the Y= list</p> <ul style="list-style-type: none"> • Press [Y=] to display the function edit screen • Move the cursor to the function you want to define, Y1, Y2, etc. • Press [CLEAR] if necessary to erase any previous function • Enter the expression to define the function you want to graph • When you complete the expression press [ENTER] <p>To leave the Y= edit screen</p> <ul style="list-style-type: none"> • Select another screen by pressing an appropriate key, [GRAPH] or [WINDOW] • Press [2nd], [QUIT] 	<p>Displaying a graph</p> <ul style="list-style-type: none"> • Press [GRAPH] to display the graph of selected functions <p>Selecting functions for display</p> <ul style="list-style-type: none"> • Press [Y=] to display the current functions • The = sign on a selected function is highlighted • Move the cursor to the function you want to select or deselect • Use [←] to place the cursor over the = sign • Press [ENTER] to change the status

Exploring a Graph with TRACE

- Press [TRACE] to begin a trace. The TI-82 will display the graph if necessary.
- The cursor sets at the middle **X** value on the screen for the first function in your list
- [←] and [→] move the cursor along the function.
- While tracing, you can press [ENTER] so that the cursor location becomes the center of the viewing window.