Calculator Basics for the TI-89, TI-92, TI-92 Plus

To effectively use your TI-89, TI-92 or TI-92 Plus calculator in Calculus there are several things you will need to be familiar with. Settings will need to be found and changed. Some of the settings you will use frequently can be found as follows:

SETTING	TI-89	TI-92, TI-92 Plus
DARKEN/LIGHTEN DISPLAY	 → -/+ keys + key darkens the display, - key lightens the display. These may be pressed repeatedly to obtain the darkness you wish. 	 → -/+ keys + key darkens the display, - key lightens the display. These may be pressed repeatedly to obtain the darkness you wish.
ENTRY LINE	The active entry line is at the bottom of the calculator screen. All typed entries appear here first. You can edit this line. When you press enter it will be placed in the history area above the line. To clear the entry line press the CLEAR key.	The active entry line is at the bottom of the calculator screen. What you type is put in here. You can edit this line. When you press enter it will be placed in the history area above the line. To clear the entry line press the CLEAR key.
HISTORY SCREEN	The history screen is the area above the entry line on your calculator. The default is set to retain the last 30 calculations you have made. You can arrow up to the history area, highlight an entry , and press enter to 'paste' a previous entry into the active entry line. To clear the history area press F1 8 .	The history screen is the area above the entry line on your calculator. The default is set to retain the last 30 calculations you have made. You can arrow up to the history area, highlight an entry, and press enter to 'paste' a previous entry into the active entry line. To clear the history area press F1 8.
MODE OPTIONS	Press MODE There are a number of options hidden in three pages of MODE menus. They are accessed by pressing F1 , F2 , or F3 .	Press MODE The TI-92 has two pages of MODE options. The TI-92 Plus has three pages of MODE options. They are accessed by pressing F1, F2, or F3.
GRAPH	The Graph menu allows you to select from Function , Parametric , Polar , Sequence , 3D or Differential Equation graphs. (on F1 page)	On the TI-92 the Graph menu allows you to select from Function, Parametric, Polar, Sequence, or 3D graphs. (on F1 page) The TI-92 Plus allows you to select from Function, Parametric, Polar, Sequence, 3D or Differential Equation

	The TI-89 allows you to create multiple folders to use for storage of	The TI-92 and TI-92 Plus allow
CURRENT	user defined variables. The	for storage of user defined
FOLDER	calculator comes with a built-in	variables. The calculators come
	folder called MAIN. (on F1 page)	with a built-in folder called MAIN . (on F1 page)
	Choose the number of digits	Choose the number of digits
DISPLAY DIGITS	displayed from 12 fixed or 13	displayed from 12 fixed or 13
	floating point settings. (on F1 page)	floating point settings. (on F1 page)
	Choose between degrees or radians .	Choose between degrees or
ANGLE	calculator set in Radians (on F1)	want the calculator set in Radians
	page)	(on F1 page)
	Allows you to choose between	Allows you to choose between
EXPONENTIAL	Normal, Scientific or Engineering	Normal, Scientific or Engineering
FORMAT	formats. The default is Normal .	formats. The default is Normal. $(on E1 page)$
	Allows you to choose between Real	(on F1 page) Allows you to choose between Real
	(does not display complex results),	(does not display complex results),
COMPLEX	Rectangular (displays complex	Rectangular (displays complex
FORMAT	numbers in a+bi form), or Polar	numbers in a+bi form), or Polar
	form (complex numbers are	form (complex numbers are
	displayed in $re^{i\theta}$ form). (on F1	displayed in $re^{i\theta}$ form). (on F1
	page)	page)
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PRETTY PRINT	page) When Pretty Print is on the mathematics is displayed on the screen as you write it on paper (on	page) When Pretty Print is on the mathematics is displayed on the screen as you write it on paper (on
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	One of these options will usually get	One of these options will usually get
ESC/	one of these options will usually get	Use of these options will usually get
2nd OUIT	you out of wherever you are that you	you out of wherever you are that you
	don t want to be.	don t want to be.
	\bullet Y = is the shortcut.	\bullet Y = is the shortcut
	This is where you enter the functions	This is where you enter the functions
GRAPHING	you wish to graph regardless of	you wish to graph regardless of
EDITOR	graph menu selected. You can	graph menu selected. You can
	access the graphing format screen	access the graphing format screen
	from here.	from here.
	♦Y= F1 9	♦Y= F1 9
	This screen allows you to select a	This screen allows you to select a
GRAPHING	coordinate system axes style grid	coordinate system axes style grid
FORMAT SCREEN	and labels in function mode. When	and labels in function mode. When
FORMAT SCREEN	in mode your coloctions are	in mode your coloctions are
	In mode your selections are	In mode your selections are
	appropriate to the mode you are in.	appropriate to the mode you are in.
	♦ Y= F6	♦Y= F6
	This menu allows you to choose the	This menu allows you to choose the
GRAPHING STYLE	style in which a curve will be	style in which a curve will be
	graphed. Whether a graph is a solid	graphed. Whether a graph is a solid
	or a dotted line is chosen here.	or a dotted line is chosen here.
ZOOM OPTIONS	♦Y= F2 ZOOM	♦Y= F2 ZOOM
	1 ZoomBox	1 ZoomBox
	Useful to enlarge part of a graph for	Useful to enlarge part of a graph for
	inspection When 1 is pressed a	inspection When 1 is pressed a
	cursor appears at the origin Move it	cursor appears at the origin Move it
	with the arrow keys to where you	with the arrow keys to where you
Zoom boy	want a corpor of a box. Pross	want a corpor of a box. Pross
	ENTED to analog the one corner	ENTED to enchar the one common
	ENTER to allelior the one conter.	ENTER to anchor the one conter.
	Use the arrow keys to draw a box to	Use the arrow keys to draw a box to
	the desired size and press ENTER to	the desired size and press ENTER to
	redraw the graph to the size of the	redraw the graph to the size of the
	specified box.	specified box.
	6 ZoomStd	6 ZoomStd
Zoom Standard	Returns the calculator to the standard	Returns the calculator to the standard
	viewing window.	viewing window.
	viewing window. 7 ZoomTrig	viewing window. 7 ZoomTrig
	viewing window. 7 ZoomTrig Sets an approximate viewing	viewing window. 7 ZoomTrig Sets an approximate viewing
Zoom Trig	viewing window. 7 ZoomTrig Sets an approximate viewing window of $-3.29\pi \le x \le 3.29\pi$,	viewing window. 7 ZoomTrig Sets an approximate viewing window of $-4.96\pi \le x \le 4.96\pi$,
Zoom Trig	viewing window. 7 ZoomTrig Sets an approximate viewing window of $-3.29\pi \le x \le 3.29\pi$, π	viewing window. 7 ZoomTrig Sets an approximate viewing window of $-4.96\pi \le x \le 4.96\pi$, π
Zoom Trig	viewing window. 7 ZoomTrig Sets an approximate viewing window of $-3.29\pi \le x \le 3.29\pi$, $-4 \le y \le 4$, an xScl of $\frac{\pi}{2}$ and a	viewing window. 7 ZoomTrig Sets an approximate viewing window of $-4.96\pi \le x \le 4.96\pi$, $-4 \le y \le 4$, an xScl of $\frac{\pi}{2}$ and a
Zoom Trig	viewing window. 7 ZoomTrig Sets an approximate viewing window of $-3.29\pi \le x \le 3.29\pi$, $-4 \le y \le 4$, an xScl of $\frac{\pi}{2}$ and a vScl of 1	viewing window. 7 ZoomTrig Sets an approximate viewing window of $-4.96\pi \le x \le 4.96\pi$, $-4 \le y \le 4$, an xScl of $\frac{\pi}{2}$ and a vScl of 1
Zoom Trig	viewing window. 7 ZoomTrig Sets an approximate viewing window of $-3.29\pi \le x \le 3.29\pi$, $-4 \le y \le 4$, an xScl of $\frac{\pi}{2}$ and a yScl of 1. A ZoomFit	viewing window. 7 ZoomTrig Sets an approximate viewing window of $-4.96\pi \le x \le 4.96\pi$, $-4 \le y \le 4$, an xScl of $\frac{\pi}{2}$ and a yScl of 1. A ZoomFit
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1		
	4 ZoomDec	4 ZoomDec
	The decimal setting allows the trace	The decimal setting allows the trace
Zoom Decimal	function to show x and y values	function to show x and y values
	every .1 unit. The default window is	every .1 unit. The default window is
	$-7.9 \le x \le 7.9$, $-3.8 \le y \le 3.8$	$-11.9 \le x \le 11.9$, $-5.1 \le y \le 5.1$
	5 Zoom Sqr	5 Zoom Sqr
	Redraws the graph so that the scales	Redraws the graph so that the scales
Zoom Square	on the x- and y-axes are equally	on the x- and y-axes are equally
-	spaced for the viewer. This setting	spaced for the viewer. This setting
	will make a circle look like a circle	will make a circle look like a circle
	rather than an ellipse.	rather than an ellipse.
	2 ZoomIn	2 ZoomIn
Zoom In	Allows you to magnify a portion of a	Allows you to magnify a portion of a
	graph centered at the cursor.	graph centered at the cursor.
	3 ZoomOut	3 ZoomOut
Zoom Out	Allows you to examine a larger	Allows you to examine a larger
	portion of a graph centered at the	portion of a graph centered at the
	cursor.	cursor.
	▲ WINDOW	♦ WINDOW
	The standard default window is	The standard default window is
	$-10 \le r \le 10, -10 \le v \le 10$. You	$-10 \le x \le 10$, $-10 \le y \le 10$ You
	$10 = x = 10$, $10 = y = 10 \cdot 10u$	a = a = 10, $10 = y = 10$ for
GRAPHING	Val and Val refer to the scales on	Van change it to whatever you need.
WINDOW	Asci and isci lefer to the scales off	Asci and isci lefer to the scales off
	the metham An X and an X and of 0	the axes. Fou can change them to fit
	aliminates tis marks from the graph	aliminates tis marks from the graph
	The langer the uP as runch on is the	The larger the P ag number is the
	The larger the graph will be. The	The larger the graph will be. The
	defent is 1	default is 1
	When coloridate is act in AUTO	When coloriston is set in AUTO
	when calculator is set in AUTO	when calculator is set in AUIO
♦ ≈	mode pressing $\diamond \approx (\diamond ENTER)$	mode pressing $\diamond \approx (\diamond ENIER)$ will
	will change an exact answer into an	change an exact answer into an
	approximate answer.	approximate answer.
	From a graph pressing F5 gives you	From a graph pressing F5 gives you
	a menu from which you can choose	a menu from which you can choose
	to do things like evaluate the	to do things like evaluate the
GRAPH MATH	function at a point, find a function	function at a point, find a function
MENU	maximum or minimum, find a point	maximum or minimum, find a point
	of intersection, differentiate,	of intersection, differentiate,
	integrate, find a point of inflection,	integrate, find a point of inflection,
	find arc length, draw a tangent line	find arc length, draw a tangent line
	to the function at a specified point.	to the function at a specified point.
	Selecting F3 from a graph will allow	Selecting F3 from a graph will allow
	you to trace a function. While	you to trace a function. While
TRACE	tracing if you type a number and	tracing if you type a number and
	press ENTER the calculator will	press ENTER the calculator will
	interpret it as an x-value and will	interpret it as an x-value and will
	give you the corresponding y-value	give you the corresponding y-value
	of the function.	of the function

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SELECTING TO	From the graph you can turn a	From the graph you can turn a
GRAPH OR NOT	function on or off for graphing by	function on or off for graphing by
TO GRAPH A	pressing F4 . A function will graph	pressing F4 . A function will graph
FUNCTION	only if it has a ✓ mark in front of it.	only if it has a ✓ mark in front of it.
	CATALOG	2nd 2 (CATALOG)
	If you can't find what you want in a	If you can't find what you want in a
	pull down menu you can probably	pull down menu you can probably
	find it in the catalog. You can jump	find it in the catalog. You can jump
	to a letter by typing the key that	to a letter by typing the associated
CATALOG	letter is above. A very useful	key. A very useful feature of the
	feature of the CATALOG is that	CATALOG is that the syntax for
	the syntax for the command is	the command is given in the lower
	given in the lower left hand corner	left hand corner of the calculator.
	of the calculator. It is not given	It is not given when a command is
	when a command is obtained from a	obtained from a pull down menu.
	pull down menu.	
	The 2nd key accesses whatever is	The 2nd keys access whatever is
2nd KEYS	above another key written in yellow.	above another key written in yellow.
		There are two 2nd keys on the
		keyboard. You can use either.
	ENTER is used to execute a	ENTER is used to execute a
ENTER	command.	command. There are three ENTER
		keys on the keyboard. You can use
		whichever is most convenient.
	The alpha key accesses the purple	Not available. The qwerty keyboard
- 1 -1 - 1	alphabet above the keys. alpha	makes this key unnecessary.
агрпа кеу	will give you an upper case letter,	
	alpha will give you a lower case	
	The law economic the groop	The law eccess the groop
	and written above some house	and written above some hove
	Pross FE to access the hidden	Pross K to access the hidden
	keyboard. The symbols shown here	keyboard. The symbols shown here
HIDDEN	are accessible by typing followed	are accessible by typing followed
KEYBOARD	by the key the desired symbol is	by the key the desired symbol is
	above These symbols are also	above These symbols are also
	available through pull down menus	available through pull down menus
L	avanable unbugn pun down menus.	avanable unbugn pun down menus.

Throughout these assignments the TI-89 calculator screens have been used. While the TI-92 and TI-92 Plus screens differ slightly from that of the TI-89, this difference is not significant enough to merit listing multiple calculator screens for use in doing these assignments. The screens for all three calculators are shown below with the major differences noted.





TI-92 Plus





You can distinguish between the **TI-92** and **TI-92 Plus** by looking at **F6**. The **TI-92** indicates that it will clear only the one letter variables **a - z** while the **TI-92 Plus** indicates, by **Clean Up** that it will do more than just clear the one letter variables. The **TI-89** screen is configured like that of the **TI-92 Plus** but is not as wide.

The screen shown is called the home screen. When working with the **TI-89**, **TI-92** and **TI-92 Plus** the following areas of the home screen will be referred to. These areas are indicated below.

