

Save This Sheet !

TI-83+/84+ Quick Reference Sheet

CCSS Algebra 1 Level



Calculator ID #:
Choose 2nd MEM,
#1 About
ID****_****_****

To Graph Lines (functions):

1. Enter equation in Y=.
2. Use ZOOM #6 (will give standard 10 x 10 window).
3. Use GRAPH to display graph.
4. Use WINDOW (to create your own screen settings).
5. Use TRACE to move spider on graph – arrow up/down between graphs

To Find Intersection Pts:

1. Graph both equations.
2. Use CALC menu (2nd TRACE)
Choose #5 Intersect
3. Simply press <ENTER> 3 times to reveal the answer.

If you are looking for more than one intersection point, you must repeat this process.

To Plot Histograms and Box-Whisker Plots:

1. Place data in Lists: STAT → EDIT
2. Set up plot information: STAT PLOT #1 <ENTER>
Highlight ON, choose symbol for histogram, XList: L₁
OR choose symbol for box-whisker, Freq: 1
3. Graph: ZOOM #9 - TRACE to see values on graph
4. Xscl under WINDOW controls width of bars on histogram. An integer value is easiest to read.

Diagnostics ON: must be ON to see correlation coefficient, *r*.
1. MODE – StatDiagnostics: ON
or 2. CATALOG, ALPHA D,
DiagnosticOn, ENTER, ENTER

To Get Statistical Information:

1. Place data in Lists: STAT → EDIT
2. Engage 1-Variable Statistics: STAT → CALC #1 1-VAR STATS
3. On Home Screen indicate list containing the data: 1-VAR STATS L₁

\bar{x} = mean

S_x = the sample standard deviation

σ_x = the population standard deviation

n = the sample size (# of pieces of data)

Q₁ = data at the first quartile

med = data at the median (second quartile)

Q₃ = data at the third quartile

To Get Scatter Plots and Regressions (Linear, Quadratic, Exponential, Power, etc):

1. Place data in Lists: STAT → EDIT
2. Graph scatter plot: STAT PLOT #1 <ENTER> Choose ON.
Choose the symbol for scatter plot, choose L₁, L₂, choose mark
3. To graph, choose: ZOOM #9
4. To get regression equation: STAT → CALC #4 Lin Reg(ax+b)
(or whichever regression is needed)
5. On screen: Xlist: L₁ Ylist: L₂ Store RegEQ: Y₁
(or LinReg(ax+b) L₁, L₂, Y₁)
6. to see graph – GRAPH

To get Y₁ on the calculator screen: ALPHA F4
or VARS → Y-VARS
FUNCTION Y₁

To Get Residuals:

After preparing a regression equation (using L₁ and L₂), residuals are stored in a list called RESID.

To plot residuals:

1. Go to top of L₃, press ENTER.
2. Go to LIST (2nd STAT) – choose #7 RESID, press ENTER.
3. Go to STAT PLOT, Plot 1, ON
4. Type: first icon (scatter plot)
5. XList: L₁ YList: L₃
6. ZOOM 9:ZoomStat

Been Playing Games?

Run DEFAULTS to reset calculator. 2nd MEM, #7 Reset, #2 Defaults, #2 Reset