

## Graphing Calculator Cheat sheet for Correlation/Regression

### To clear a list:

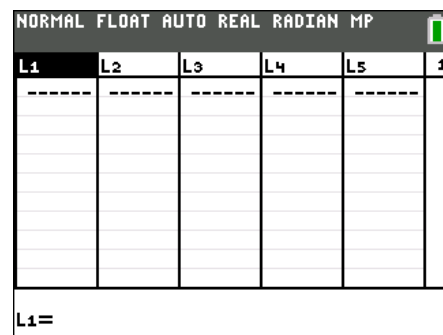
STAT

EDIT

Arrow key up until you are on the name of the list you want to clear i.e. L<sub>1</sub>

Press CLEAR (Not DEL)

Press down arrow



### To enter data:

STAT

EDIT

Type data values into list(s)



### Finding r, a, b: \*Make sure StatDiagnostic is On:

press MODE arrow down to StatDiagnostic: ON press ENTER

only needs to be done once or if calculator memory is reset or loses charge for a long time

STAT

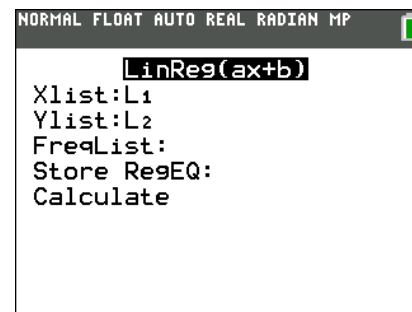
CALC

4:LinReg (ax+b)

X List: L<sub>1</sub>, Y List: L<sub>2</sub>,

FreqList: and Store RegEQ: Both Blank

Calculate; Enter



You can

### Graphing a Scatterplot:

2<sup>nd</sup> Statplot

set up the graphing screen,

make sure graph is "ON" and others are "OFF"

ZOOM 9

### Graphing line of best fit on scatterplot:

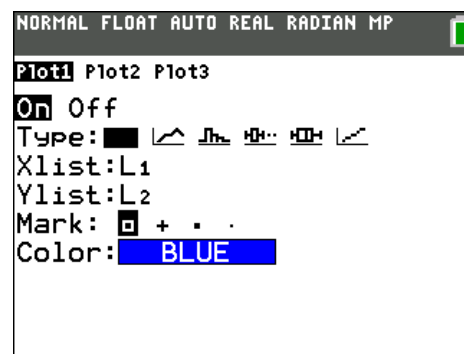
STAT

CALC

4:LinReg(ax+b)

Where it says Store RegEQ: Y<sub>1</sub>

Y<sub>1</sub> can be found by pressing VARS, right arrow to Function, then 1:Y<sub>1</sub> and press Enter twice to Calculate. When you press Zoom 9 the regression equation will appear on the graph.



**Creating residuals list:**

2<sup>ND</sup> LIST

RESID STO 2<sup>ND</sup> L# Usually L 3

**Finding sum of residuals:**

2<sup>ND</sup> LIST

MATH

SUM(L#)

**Creating residual plot:**

2<sup>nd</sup> Statplot

set lists to L<sub>1</sub> and resid list# (L<sub>3</sub>)

Zoom 9