

Regression Lines (Best Fit Lines or Trend Lines)

- 1) Press STAT
- 2) Select "Edit" and press enter
- 3) Enter all of your (x,y) coordinates into L1 (x) and L2 (y)
- 4) Press 2nd then Y = (Stat Plot)
- 5) Select Plot 1 and press enter
- 6) Select On and the first Type (just points)
- 7) Press Graph to see your points

Now we will get the Regression Line

- 8) Press STAT
- 9) Press the right arrow
- 10) Select "LinReg(ax+b)" which means a linear regression line and press enter
- 11) LinReg(ax+b) will appear on your main screen, press enter again

$$y = ax + b$$

a = is the slope of your line

b = is your y-intercept (constant)

r = the closer to 1 you are the closer your data points are to the reg. line

- 12) Press the Y = key and enter the equation as $y = mx+b$
- 13) Press Graph

This will show you the Regression Line that fits your data set.