

# Linear Regression with a TI-83/84

## 1. Turn DiagnosticOn

- [2<sup>nd</sup>] > [CATALOG]
- Scroll down to “DiagnosticOn” and hit [ENTER]

## 2. Enter List Data

- Enter L1 and L2 as your two corresponding data lists

L1	L2	L3	2
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100	-----	2
L2(6) =			

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## 3. Perform the Regression

- [STAT] [>] [4] Chooses “LinReg (ax+b)”
- Enter the two Lists you want to use, i.e. “LinReg (ax+b) L1, L2”

Hit [ENTER] To get your r value

**Note: In lecture the Prof said to use LinReg(a+bx), but your r will be the same.**

```
LinReg
y=ax+b
a=3.166101695
b=-55.79661017
r2=.8811498758
r=.9386958377
```