

How to Calculate the Correlation Coefficient r

(Casio fx-85GT)

Example: (100,24) (123,25) (97,22)

Step 1: Put calculator in STAT LINEAR MODE by pressing

[MODE] [2] (Stat) [2] (A+Bx)

Step 2: Input the data, by typing

100 [=] 123 [=] 97 [=] (i.e. the "x values" in this example)

then use the arrow keys [\downarrow] then [\rightarrow] to enter the "y values"

24 [=] 25 [=] 22 [=]

Step 3: To find r , type

[AC] [SHIFT] [1] (Stat) [5] (Reg) [3] (r) [=]

On some calculators e.g. casio fx-83 ES,
this is option **[7]**

In this example, the answer should be $r = 0.8207491025$