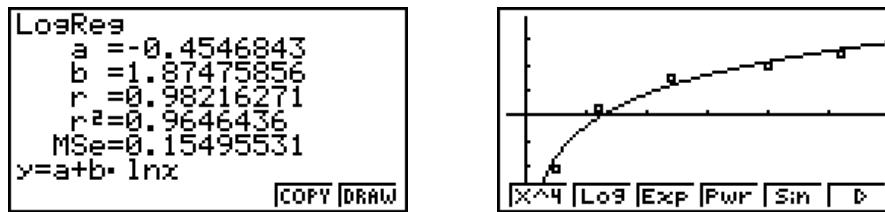


Example Input the two sets of data shown below and plot the data on a scatter diagram. Next, perform logarithmic regression on the data to display the regression parameters, and then draw the corresponding regression graph.

0.5, 1.2, 2.4, 4.0, 5.2 (xList)
-2.1, 0.3, 1.5, 2.0, 2.4 (yList)

- ① **MENU** STAT
- ② 0 . 5 EXE 1 . 2 EXE 2 . 4 EXE 4 . 0 EXE 5 . 2 EXE ▶
(-) 2 . 1 EXE 0 . 3 EXE 1 . 5 EXE 2 . 0 EXE 2 . 4 EXE
F1(GRPH) **F6**(SET) ▶ **F1**(Scat) **EXIT** **F1**(GPH1)
- ③ **F1**(CALC) **F6**(D>) **F2**(Log)
- ④ **F6**(DRAW)



- You can perform trace on a regression graph. You cannot perform trace scroll.
- Input a positive integer for frequency data. Other types of values (decimals, etc.) cause an error.

■ Selecting the Regression Type

After you graph paired-variable statistical data, you can use the function menu at the bottom of the display to select from a variety of different types of regression.

- { $ax+b$ }/{ $a+bx$ }/{ Med }/{ X^2 }/{ X^3 }/{ X^4 }/{ Log }/{ ae^{bx} }/{ ab^x }/{ Pwr }/{ Sin }/{ Lgst } ...
{linear regression ($ax+b$ form)}/{linear regression ($a+bx$ form)}/{Med-Med}/{quadratic regression}/{cubic regression}/{quartic regression}/{logarithmic regression}/{exponential regression (ae^{bx} form)}/{exponential regression (ab^x form)}/{power regression}/{sinusoidal regression}/{logistic regression} calculation and graphing
- {**2VAR**}... {paired-variable statistical results}

■ Displaying Regression Calculation Results

Whenever you perform a regression calculation, the regression formula parameter (such as a and b in the linear regression $y = ax + b$) calculation results appear on the display. You can use these to obtain statistical calculation results.

Regression parameters are calculated as soon as you press a function key to select a regression type, while a graph is on the display.

The following parameters are used by linear regression, logarithmic regression, exponential regression, and power regression.

r correlation coefficient
 r^2 coefficient of determination
 MSe mean square error