■ Drawing a Regression Graph

Use the following procedure to input paired-variable statistical data, perform a regression calculation using the data, and then graph the results.

1. From the Main Menu, enter the **Statistics** mode.
2. Input the data into a list, and plot the scatter diagram.
3. Select the regression type, execute the calculation, and display the regression parameters.
4. Draw the regression graph.

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 (*x*List)

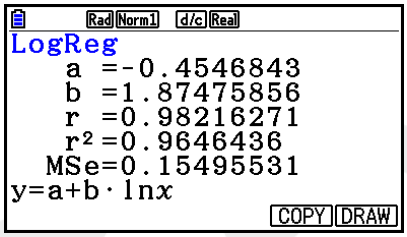
–2.1, 0.3, 1.5, 2.0, 2.4 (*y*List)

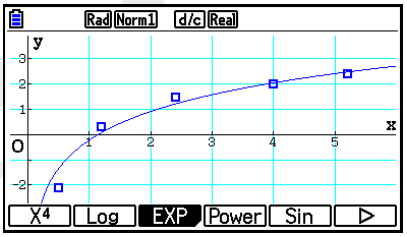
① MENU Statistics

② 0 • 5 EXE 1 • 2 EXE 2 • 4 EXE 4 EXE 5 • 2 EXE ▶
(–) 2 • 1 EXE 0 • 3 EXE 1 • 5 EXE 2 EXE 2 • 4 EXE
F1 (GRAPH) F6 (SET) ▼ F1 (Scatter) EXIT F1 (GRAPH1)

③ F1 (CALC) F6 (▷) F2 (Log)

④ F6 (DRAW)





• You can perform trace on a regression graph. You cannot perform trace scroll.

■ 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**}/{**X²**}/{**X³**}/{**X⁴**}/{**Log**}/{**ae^bx**}/{**ab^x**}/{**Power**}/{**Sin**}/{**Logistic**} ...
{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

• {**2-VAR**}... {paired-variable statistical results}