TI-30XIIS & 30XIIB

■ 1. Data IN - Enter data values into your calculator

Points used for this example: (10, 15), (12, 20), (15, 35)

Press: [2 nd] [STAT] 2-VAR [Enter]
Press: [DATA] X_1 = [1] [0] [▼] Y_2 = [1] [5] [▼] X_2 = [1] [2] [▼] Y_2 = [2] [0] [▼] X_3 = [1] [5] [▼] Y_3 = [3] [5]

You can review the values entered by using the up cursor key [▲] and down cursor key [▼].

■ 2. Calculate

Press: [STATVAR]
Move the underline from n to $\bar{x}$ to Sx to σx to $\bar{y}$ ... using the right cursor key [▶]. The variable n gives the number of data points entered, $\bar{x}$ is the mean of the x values, and Sx is the standard deviation s of the x values. Keep pressing [▶] until you reach a, b, and r. The variable a is the **slope** of the least-squares regression line, b is the ***y*-intercept** of the least squares regression line, and r is the **correlation** for the data points. For the example data set the correlation is $r = 0.986$, the slope is 4.079, and the y-intercept is -26.974.

■ 3. Data OUT - Clear data values from your calculator

Press: [2 nd] [STAT] [▶] [▶] CLRDATA [Enter]