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## Casio fx-300MS

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

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

Press:  $\boxed{\text{MODE}}$   $\boxed{3}$   $\boxed{1}$  to change to linear regression mode.

Press:  $10$   $\boxed{\text{DT}}$   $15$   $\boxed{\text{DT}}$   $12$   $\boxed{\text{DT}}$   $20$   $\boxed{\text{DT}}$   $15$   $\boxed{\text{DT}}$   $35$   $\boxed{\text{DT}}$  to enter the (x, y) data points into the statistical memory of the calculator. The  $\boxed{\text{DT}}$  button is to the immediate left of the  $\boxed{\text{DT}}$  button.

### ■ 2. Calculate

Press:  $\boxed{\text{SHIFT}}$   $\boxed{S-VAR}$   $\boxed{\blacktriangleright}$   $\boxed{\blacktriangleright}$   $\boxed{1}$   $\boxed{\equiv}$  to compute the **y-intercept** of the least-squares regression line.

Press:  $\boxed{\text{SHIFT}}$   $\boxed{S-VAR}$   $\boxed{\blacktriangleright}$   $\boxed{\blacktriangleright}$   $\boxed{2}$   $\boxed{\equiv}$  to compute the **slope** of the least-squares regression line.

Press:  $\boxed{\text{SHIFT}}$   $\boxed{S-VAR}$   $\boxed{\blacktriangleright}$   $\boxed{\blacktriangleright}$   $\boxed{3}$   $\boxed{\equiv}$  to compute 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  $-26.974$ . The  $\boxed{\blacktriangleright}$  button is simply the right side of the big gray button in the middle of the top row of buttons.

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

Press:  $\boxed{\text{SHIFT}}$   $\boxed{\text{CLR}}$   $\boxed{1}$   $\boxed{\equiv}$  to remove the data values from the calculator's memory.

To change modes you could press  $\boxed{\text{MODE}}$   $\boxed{1}$  to return to regular "compute" mode. This is not necessary unless you want to use the standard memory features of the calculator.