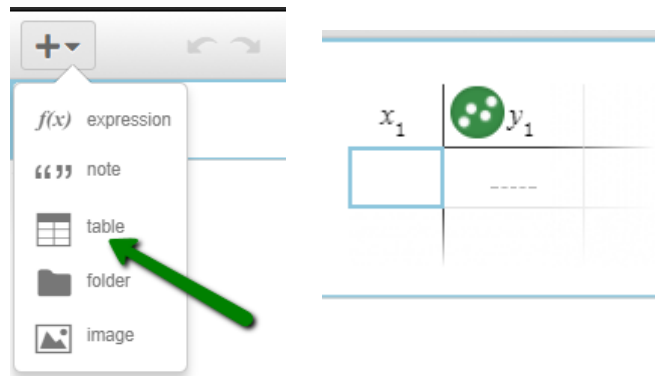


Regression Using Desmos

1. Enter the Data by adding a table

x_1 is the input data

y_1 is the output data



2. Create the regression equation

a. The overall syntax is:

$y_1 \sim$ (function choice with any letter choice parameters a, b, c, \dots) and x_1 as the input variable

Samples:

Linear

$$y_1 \sim ax_1 + b \quad \text{or} \quad y_1 \sim hx_1 + z$$

Quadratic

$$y_1 \sim ax_1^2 + bx_1 + c$$

Cubic

$$y_1 \sim ax_1^3 + bx_1^2 + cx_1 + d$$

Logistic

$$y_1 \sim \frac{a}{1 + be^{(-cx_1)}}$$

Quartic

$$y_1 \sim ax_1^4 + bx_1^3 + cx_1^2 + dx_1 + f$$

Do NOT use "e" as a parameter; desmos reserves "e" as 2.71828...
Use any other letter

Exponential

$$y_1 \sim a \cdot b^{x_1}$$

☒ Log Mode ?

Click the "Log Mode" button

Power

$$y_1 \sim a \cdot x_1^b$$

The parameters and correlation coefficient will populate below the model of choice as shown:

