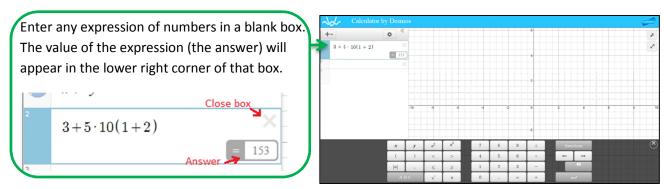
Desmos Basics

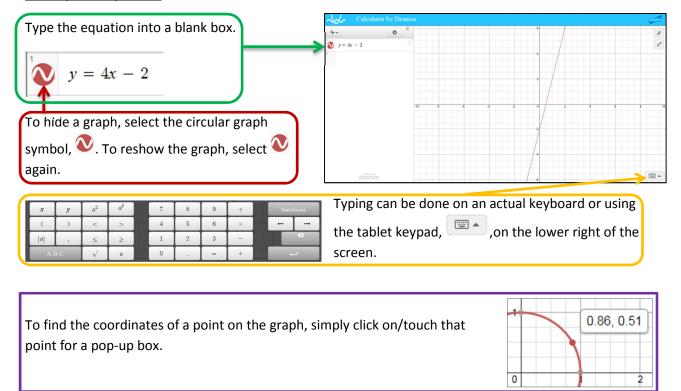
Teachers and students can use the Mathletics Desmos calculator instead of graphing calculators to graph equations, make many statistical calculations, and perform regression analysis, and more!

To Calculate with Numbers:

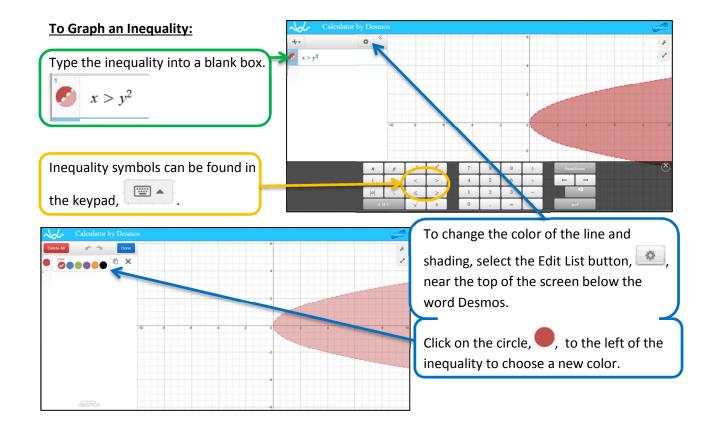


The Desmos calculator follows the order of operations.

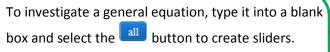
To Graph an Equation:

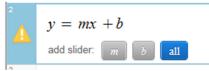


Note: Unlike most graphing calculators, Desmos can graph equations that are not functions, such as the horizontal parabola $x = y^2$ or the circle $x^2 + y^2 = 4$.

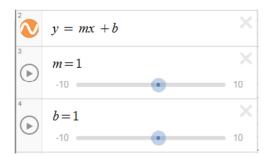


To Graph a General Equation with Sliders:

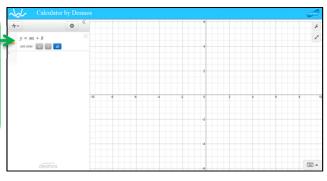


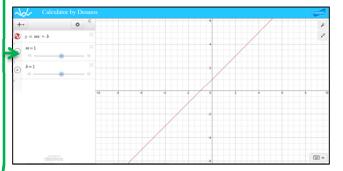


Moving the sliders changes the values of the parameters (such as *m* or *b*).

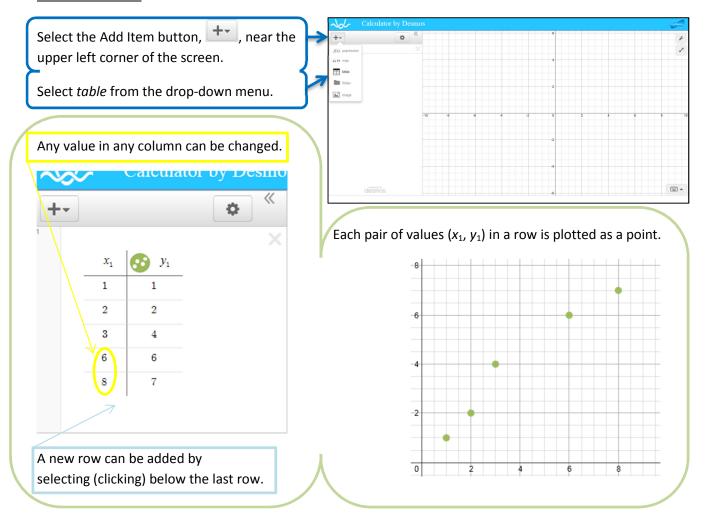


Moving the sliders immediately changes the graph.

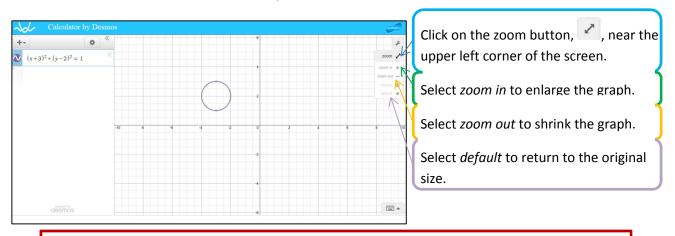




To Make a Table:

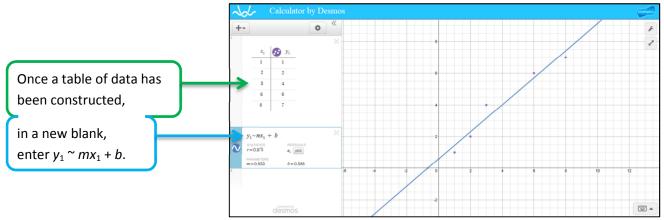


To Zoom In, Zoom Out, or Move a Graph:

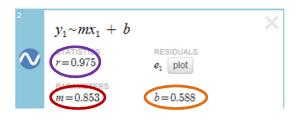


To move the graph, "grab" it by clicking on any part of the graph and drag to reveal other areas.

To Perform a Linear Regression (Find a Line of Best Fit):



Desmos will plot the line of best fit for the data in the table.



The values of the slope, m, and the y-intercept, b, for the line of best fit will be displayed under the equation. The value of a correlation coefficient, such as r or R^2 , will also be shown. The line of best fit shown above is approximately y = 0.853x + 0.588.

To perform a different regression, enter a different equation, such as $y_1 \sim a(b_1^x) + c$ or $y_1 \sim ax_1^2 + bx_1 + c$.

