

Straight Line Graphs on Desmos

Go to desmos.com and click on **Launch Calculator**.

Extension

Can you find lines that pass through the following pairs of points? Write them under each pair of coordinates

1. (1,5) and (4,11)	2. (-2,5) and (2,9)	3. (2,10) and (4,-2)
4. (6,1) and (10, 2)	5. (0.5, 9.5) and (15, -5)	6. (3,4) and (4,3)

Clear all your graphs.

Plot the points (0,0), (1,1), (2,4), (3,9), (4,16), (-1,1), (-2,4), (-3,9), (-4,16).

Why is it impossible to draw a straight line through all these points?

Look at the connection between the y coordinate and the x coordinate. Can you find an equation that goes through all these points? If so, what is it?