

Learning Objective: To appreciate the link between gradients, y-intercepts and the equation of a line

Learning Objective: To find the equation of a line given the graph

For each of the following questions/tables:

- Complete the table for the given function
- Plot each of the tables on a **separate** pair of axes
- Find the gradient and y-intercept for each of the lines

Part 1:

x	0	1	2	3
$y = x + 1$				

x	0	1	2	3
$y = 2x + 2$				

x	0	1	2	3
$y = 2x + 3$				

Part 2:

x	0	1	2	3
$y = 3x + 1$				

x	0	1	2	3
$y = 3x - 2$				

x	0	1	2	3
$y = 4x + 1$				

Extension: do the same for each of the following functions

$$y = -2x + 1 \quad y = -3x + 5 \quad y = -x + 4$$

Part 3: Find the equation of the following lines

