Drawing straight line graphs from a table Example y = 2x + 1

You can substitute in x coordinates to find the v coordinates plot them & draw graphs

the y coordinates, plot them & draw graphs				
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у	1	3	5	7

Now plot the points (0,1), (1,3), (2,5) and (3,7) and draw a straight line through them (use a simple 1 x 1 axis in your book)

Task 1			
Copy tables and draw the graphs of the			
following lines			
y= 2x -1	y = x + 3	y = -x +1	
y = ½x+ 1	y = 3-x	y = 3x	

The equation of a straight line is

y = mx + c

m is the gradient (or the change in $y \div$ the change in x) and c is the y intercept. y = 3x - 1 has a gradient of 3 and y intercept of -1. Some lines are shown below



Task 2			
Without drawi	ng a tab	le of val	ues graph
and label the	following	lines.	
_	_		

y = x + 1	y = 2x -1	y = 3x + 2
y = ½ x + 1	y = x	y = -2x + 3
y = -x + 1	y = 3 + 2x	y = 4 - x
y – x = 2	y = ¼ x	x = 2

Task 3

The gradient of a line is the change in y ÷ change in x. by plotting the 2 points given (i) find the gradient of the line (ii) The equation of the line

A:(2,2) B:(3,3)	A:(1,3) B:(2,5)	A:(2,2) B:(3,3)	
A:(4,2) B:(5,5)	A:(1,0) B:(1,5)	A:(1,0) B:(4,1)	
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