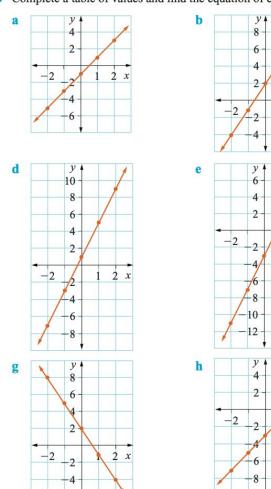
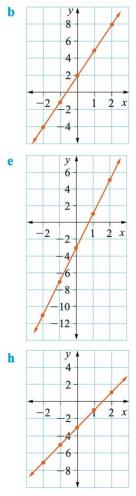
Monday 17th Agust 20

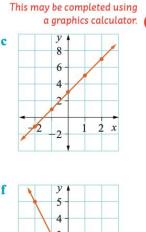
Walt complete the table to values by viewing a graph

Success criteria I can identify coordinates and the y-intercept. The rate of increase is the value that can guide me to the equation.

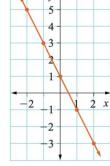
	-	EXAI	MPLE	3										
TI a b	x y Write th	graph to -2 he rule d	straight comple -1 escribing te form y	ete this t 0 g this str	1 raight lin	2	-	-2 -2 -2 -8	2 - 1 2 1 2 1	x		bol ± mer us or mir		
a b	As x inc that $y =$ When x	creases to 3x is particular to $x = 0, y = 0$	by 1, y in art of the $= -1$, so	creases e equation the equ	by 3. Th on of the lation is	the graph. this means the line. 3y = 3x - 5 = 3(2)		x y = 5	-2 -7	-1 -4	0 -1	1 2 ect.	25	



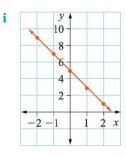




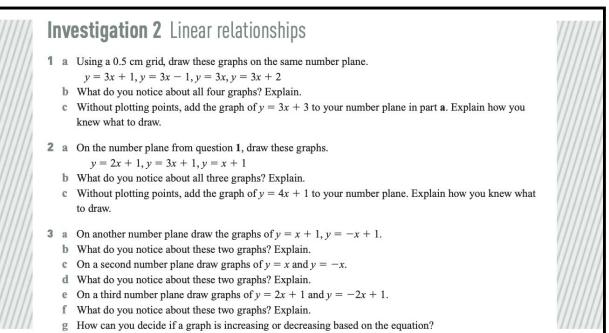
.....



f



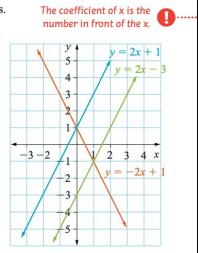
Extension



6 Complete a table of values and find the equation of each of these lines.

In Investigation 2 you found the following properties of straight-line graphs.

- 1 If the coefficient of x is the same in each equation, the lines are parallel. For example, y = 2x + 1 and y = 2x - 3 are parallel.
- 2 The constant term (the term without x) is where the line cuts the y-axis.
 For example, y = -2x + 1 cuts the y-axis at y = 1. This is the y-intercept.
- 3 Lines with the coefficient of x equal but opposite in sign have the same slope but in opposite directions.
- 4 As we move from left to right, lines with a positive coefficient of x have an 'uphill' slope. Lines with a negative coefficient of x have a 'downhill' slope.



Check your answers

6 a y = 2x - 1

x	-2	-1	0	1	2
у	-5	-3	-1	1	3

b y = 3x + 2

x	-2	-1	0	1	2
у	-4	-1	2	5	8

c y = 2x + 3

x	-2	-1	0	1	2
у	-1	1	3	5	7

d y = 4x + 1

x	-2	-1	0	1	2
у	-7	-3	1	5	9

e y = 4x - 3

x	-2	-1	0	1	2
у	-11	-7	-3	1	5

f y = -2x + 1

x	-2	-1	0	1	2
у	5	3	1	-1	-3

g
$$y = -3x + 2$$

x	-2	-1	0	1	2
у	8	5	2	-1	-4

h y = 2x - 3

x	-2	-1	0	1	2
у	-7	-5	-3	-1	1

i
$$y = -2x + 5$$

x	-2	-1	0	1	2
y	9	7	5	3	1