

ALGEBRAIC GRAPHS

Name: _____

Assessment Criteria: Plot the graphs of linear functions, where y is given explicitly in terms of x ; recognise that equations of the form $y = mx + c$ correspond to straight-line graphs

1a. Complete the following tables by filling in the missing values:

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

$y = 2x + 2$				
x	-1	0		2
y	0		4	6

b. Plot the graphs of $y = 2x - 1$ and $y = 2x + 2$ on the axes on the back of this sheet.

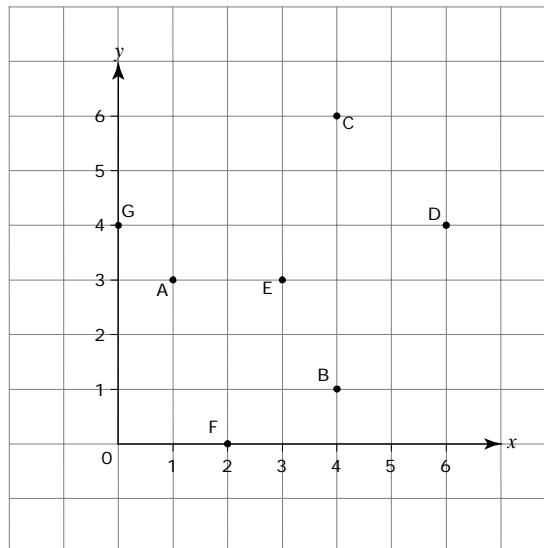
c. What do the two graphs have in common?

2a. Write down the equation of the straight line that passes through the origin and the point E

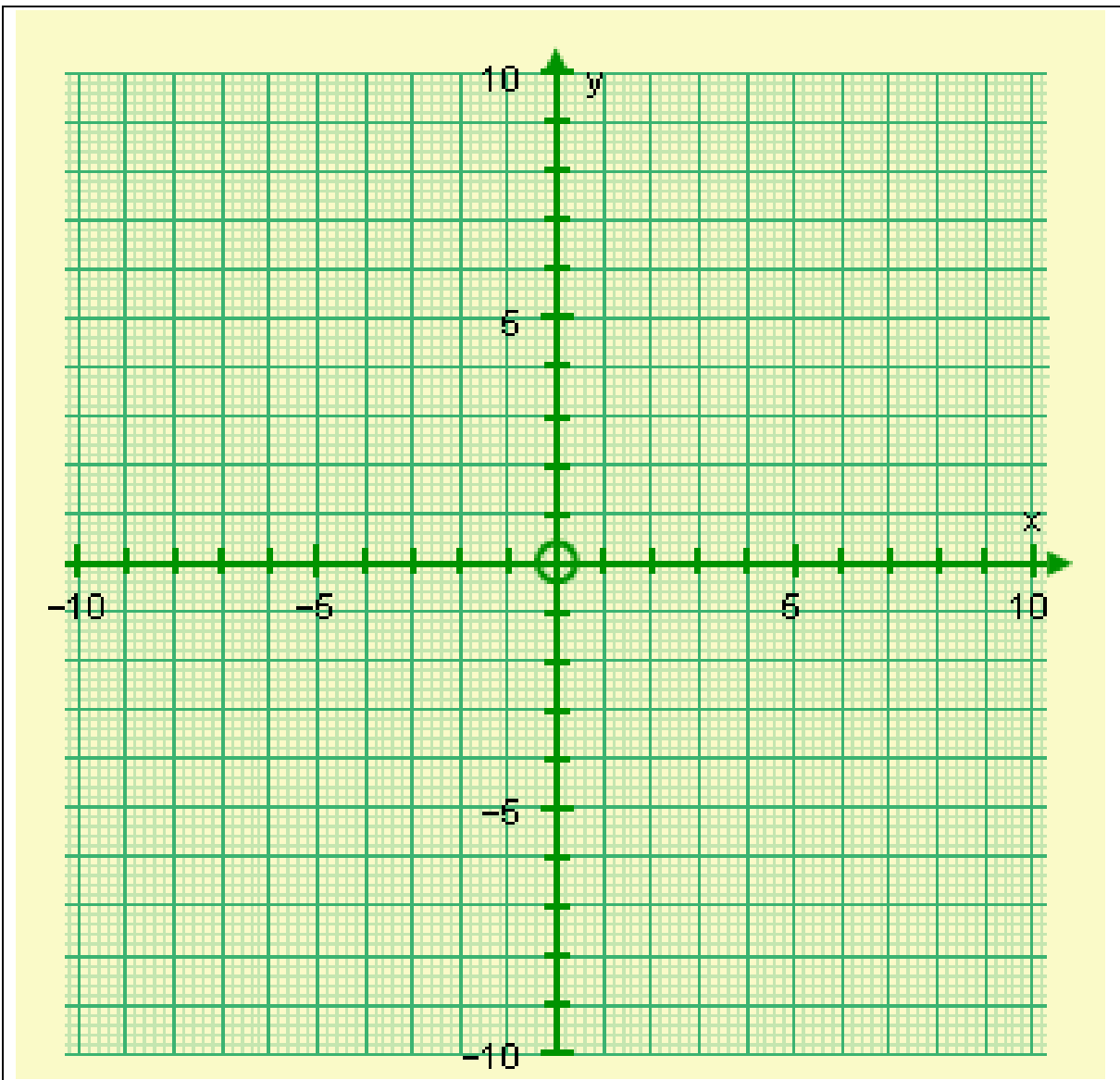
b. Write down the equation of the straight line that passes through the origin and the point A

c. Which point(s) lie on the line $x = 4$?

d. Which point(s) lie on the line $y = 3$?



3. Does the point $(2, 5)$ lie on the graph of $y = 2x + 5$? Explain your answer



Overall, I think my success level is: Low High
○ ○ ○ ○

Q	ALGEBRAIC GRAPHS	☺	☹
	I can identify graphs of the form $y = A$ and $x = B$		
	I can complete a table of values for a linear function		
	I can plot points and draw a graph of the form $y = mx + c$		
	I can decide if a point lies on a line by using the equation		

I need to practise ...