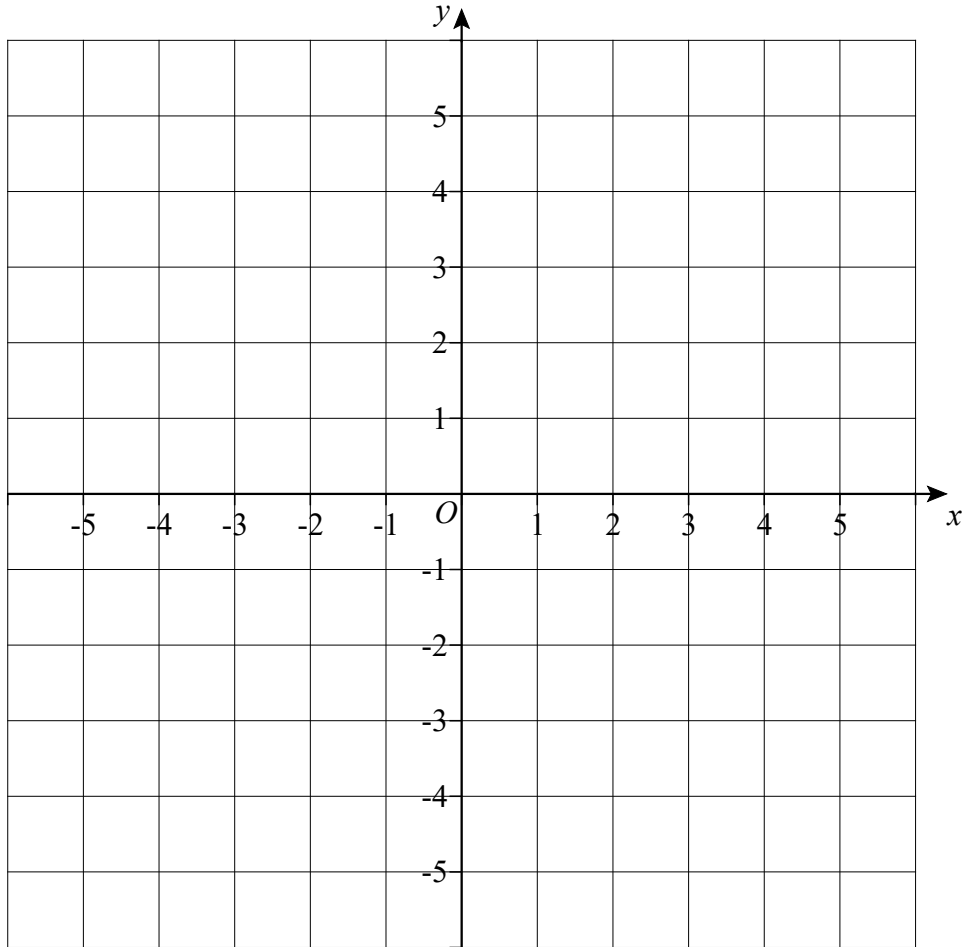


Topic Test 1 (20 minutes)

Graphs recap and extension - Foundation

1



1 (a) Plot the points $A(-2, -1)$ and $B(1, 1)$ on the grid.

[2 marks]

1 (b) $ABCD$ is a square.

Write down possible coordinates for C and D .

[2 marks]

Answer (,) and (,)

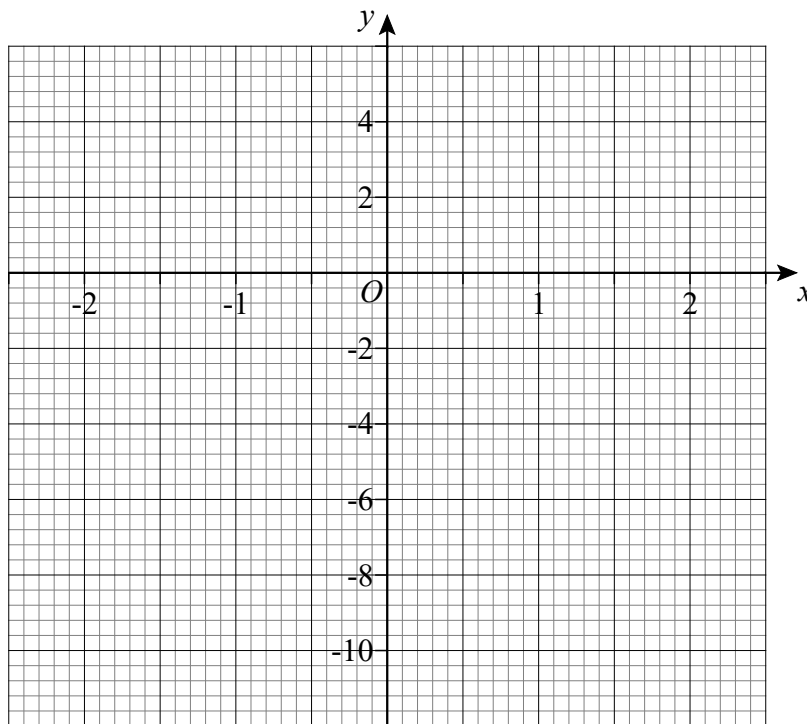
2 (a) Complete the table for $y = -4 - 3x$

[1 mark]

x	-2	-1	0	1	2
y	2	-1		-7	-10

2 (b) On the grid draw the graph of $y = -4 - 3x$ for values of x from -2 to 2

[2 marks]



3 Circle the y-intercept of the line $y - 2x = 3$

[1 mark]

-3 -2 2 3

4 Circle the equation of the line that is parallel to $y = 6 - 3x$

[1 mark]

$y = 3x + 6$

$y = -3x - 6$

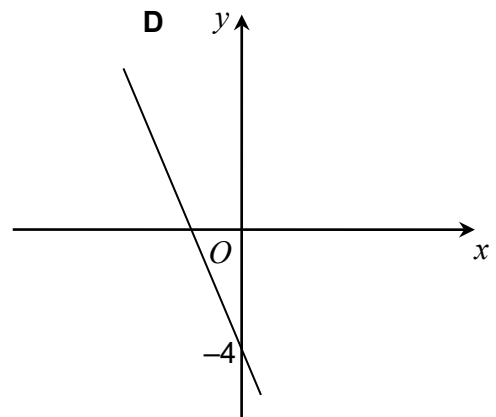
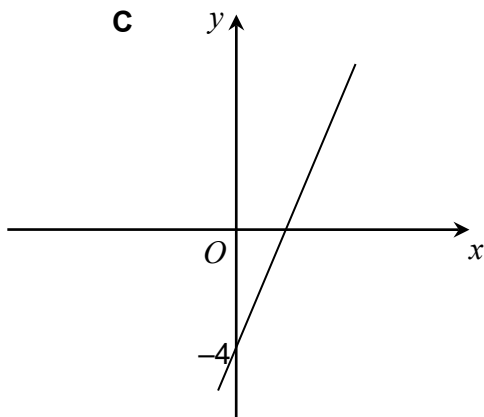
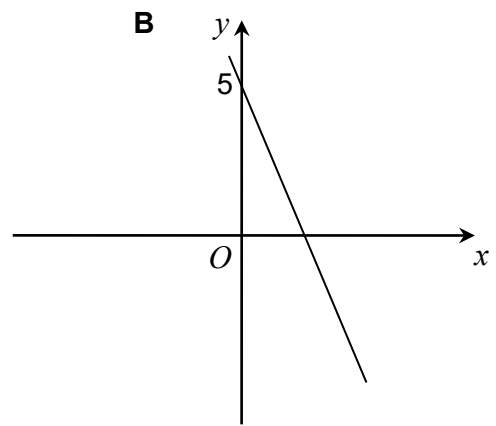
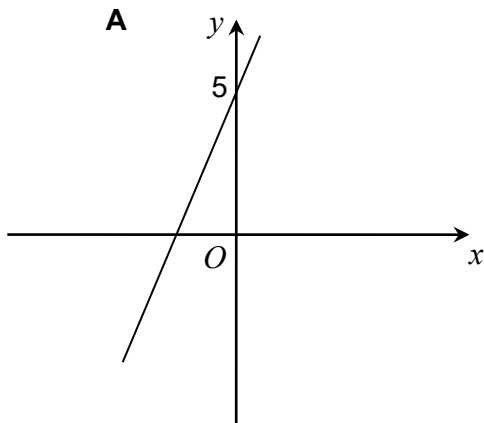
$y = 3x - 6$

$y = 6x - 3$

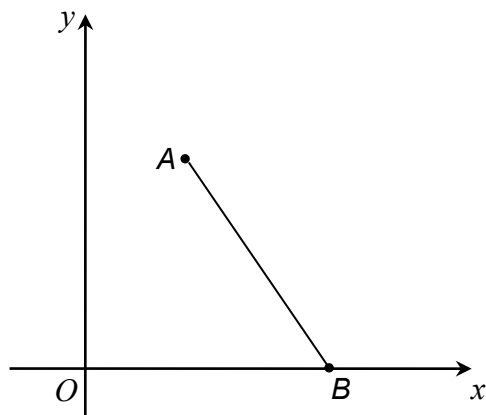
5 Which of these is a sketch of $y = 5 - 4x$?

Circle the correct letter.

[1 mark]



6 A is $(3, 8)$ and B is $(7, 0)$



Not drawn
accurately

6 (a) Work out the gradient of the line AB .

[2 marks]

Answer _____

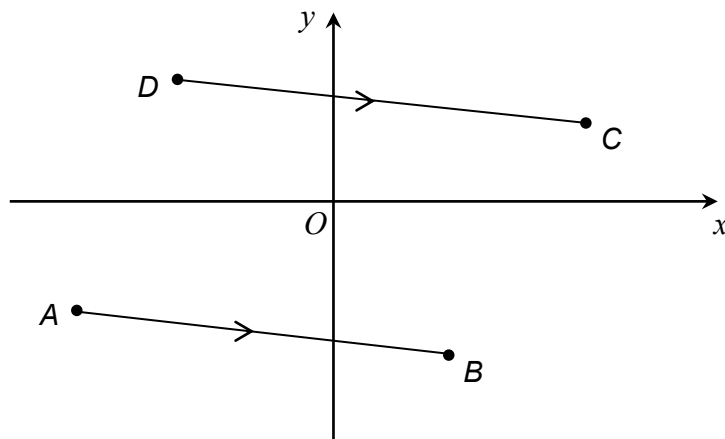
6 (b) CD is the line parallel to AB that passes through $(0, 5)$

Work out the equation of the line CD .

[2 marks]

Answer _____

- 7 A is $(-5, -2)$, B is $(2, -3)$, C is $(4, 1)$ and D is $(-3, 2)$
 AB and DC are parallel.



Not drawn
accurately

- 7 (a) Work out the gradient of AD .

[2 marks]

Answer _____

- 7 (b) Work out the gradient of BC .

[2 marks]

Answer _____

- 7 (c) What type of quadrilateral is $ABCD$?
Give a reason for your answer.

[2 marks]

Answer _____