

Topic Test 2 (20 minutes)

Graphs recap and extension - Foundation

Here are four graphs.

- Graph A: y = 2x 1
- Graph B: x + y = 6
- Graph C: 2y + x = 1

Graph D: x + y + 4 = 0



These graphs will help you to answer questions 1 to 5

1	Which two graphs are parallel?				[1 mark]
		Answer	,		
2	Which two graphs are	perpendicular?			[1 mark]
		Answer	,		
3	Which of the following points does graph B not pass through? Circle your answer.				[1 mark]
	(0, 6)	(-3, 9)	(3, -3)	$(-\frac{1}{2}, 6\frac{1}{2})$	
4	Write down the solution of the simultaneous equations 2x - y = 1 x + y = -4				
		Answer (,	[1 mark] _)
5	Work out the <i>y</i> -coordi	nate of the point o	n line C with an <i>x</i> -	coordinate of 10	[1 mark]
		Answer			





Work out the area of the square.

You **must** show your working, which may be on the diagram.

[3 marks]











Work out the equation of the line that

- is perpendicular to y = x
- passes through the point P(4, 4)

[2 marks]

Answer

A(3, 4) and B(1, 2) are shown on the grid.



Work out the equation of the line that passes through A and B. Give your answer in the form y = mx + c

[3 marks]

Answer

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C(2, 3) is shown on the grid. 11



Work out the equation of the line that passes through C with a gradient of -3

[3 marks]

Answer