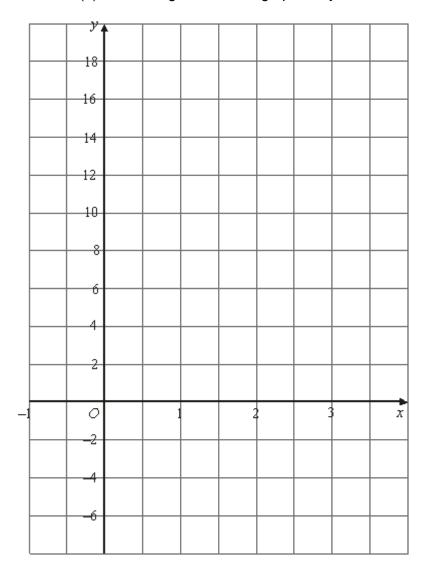
Q1. (a) On the grid, draw the graph of y = 5x + 1 from x = -1 to x = 3



(3)

(b) Which of the following is the equation of a line parallel to y = 5x + 1?

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$$y = x + 1$$
 $5y = x + 1$ $y + 5x = 3$ $y - 5x + 1 = 0$ $y = -\frac{x}{5} + 1$ (1)

(c) Find the equation of the line which is perpendicular to y = 5x + 1 and passes through the point (0, 0).

Q2. The line y = 2x + 3 meets the line y = 4x + 2 at the point P.

Find an equation of the line which is perpendicular to the line y = 2x + 3 and which passes through the point P.

Edexcel Maths GCSE - Using y=mx+c (FH)	PhysicsAndMathsTutor.com
	(5) (Total 5 marks)
	(Total 5 marks)

M1.

		Wo	orkii	ng	Answer	Mark	Additional Guidance
	Table of v x = -1 y = -4 OR Using y = 5, y- interes	0 1 <i>mx</i>	1 6 + <i>c</i> ,	grad	Single line from (–1, –4) to (3, 16)		B3 for a correct single line from (-1, -4) to (3, 16) [B2 for at least 3 correct points plotted and joined with line segments OR 3 correct points plotted two of which must be the extremes with no joining OR a single line of gradient 5 passing through (0, 1)] B1 for 2 correctly plotted points OR a single lie of gradient 5 OR a single line passing through (0, 1)
(b)					D	1	B1 cao

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	(c)			2		
			Page	5		
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Total for Question: 6 marks

M2.

Working	Answer	Mark	Additional Guidance
Eliminate y to get 2x + 3 = 4x + 2, x = 0.5 y = 4	y = -0.5x + 4.25	5	 M1 eliminate y M1 substitute the found value of x in the equation A1 both answers M1 an equation of the form y = mx + c with either c correct or m correct or the correct gradient stated A1 cao
OR y = 2x + 3 and y = 4x + 2 drawn correctly on graph paper Perpendicular drawn correctly through (0.5, 4) Intercept found Gradient found			OR B1 y = 2x + 3 drawn B1 y = 4x + 2 drawn M1 draws perpendicular through point of intersection M1 an equation of the form
Gradient Tound			y = mx + c with either c correct or m correct or the correct gradient stated A1 cao Total for Question: 5 marks

Resource currently unavailable.