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PURE MATH

ALGEBRA AND FUNCTION

Level & Board	EDEXCEL (A-LEVEL)
τορις.	STRAIGHT LINE
PAPER TYPE:	QUESTION PAPER - 6
TOTAL QUESTIONS	8
TOTAL MARKS	42

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Questions

Q1.

The line *l*1 has equation 4y - 3x = 10

The line l^2 passes through the points (5, -1) and (-1, 8).

Determine, giving full reasons for your answer, whether lines *l*1 and *l*2 are parallel, perpendicular or neither.



Q2.

The line *l*3 has equation 2y+5x=8The line l4 passes through the points (3,-2) and (1,6). Determine, giving full reasons for your answer, whether lines 13 and 14 are parallel, perpendicular or neither.

> (5) (Total for question = 5 marks)

(4)

Q3.

The line *l*5 has equation 3x+2y=6The line *l*6 passes through the points (2,4) and (5,-1). Determine, giving full reasons for your answer, whether lines *l*5 and *l*6 are parallel, perpendicular or neither.

(3)



Q4.

The line *l*5 has equation y=2x+3The line *l*6 passes through the points (-1,1) and (3,7). Determine, giving full reasons for your answer, whether lines *l*5 and *l*6 are parallel, perpendicular or neither.

(4)

(Total for question = 4 marks)

I am Sorry !!!!!

Q5.

The line *l*5 has equation 2x-5y=3The line *l*6 passes through the points (4,-1) and (1,6). Determine, giving full reasons for your answer, whether lines *l*5 and *l*6 are parallel, perpendicular or neither.

(4)

(Total for question = 8 marks)



The line 11 has equation 2x + 4y - 3 = 0

The line 12 has equation y = mx + 7, where m is a constant.

Given that 11 and 12 are perpendicular,

(a) find the value of m.

The lines 11 and 12 meet at the point P.

(b) Find the x coordinate of P.

(3)

(4) (Total for question = 7 marks)

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Q7.

The equation of the line passing through points C (2, 5) and D (6, -1). Find an equation for *l*.

(5) (Total for question = 5 marks)



Q8.

The equation of the line passing through points I (1, 4) and J (2, 6). Find an equation for *l*.

(4) (Total for question = 4 marks)

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