

Question 10 continued

Handwritten answer area with horizontal dotted lines.



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Question 10 continued

Handwritten answer area with horizontal dotted lines.

(Total for Question 10 is 13 marks)



11 The points A and B have coordinates $(-3, -5)$ and $(7, 5)$ respectively.

- (a) Find an equation for the line AB (2)

The point C has coordinates $(p, 1)$ where $p < 0$

Given that AC and BC are perpendicular,

- (b) prove that $p = -5$ (7)

The point D , where BCD is a straight line, is such that C divides BD in the ratio $4:3$

- (c) Find the coordinates of D (2)

- (d) (i) Find the exact length of AC
(ii) Hence, or otherwise, find the area of triangle ABD (4)

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Question 11 continued

Handwriting practice area with horizontal dotted lines.



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TOTAL FOR PAPER IS 100 MARKS