

5 The points P , Q , R and S have coordinates $(4, 7)$, $(3, 0)$, $(10, 1)$ and $(11, 8)$ respectively.

(a) Show, by calculation, that the lines PR and QS are perpendicular.

(3)

(b) Find the exact lengths of (i) PR (ii) QS

(2)

(c) Find the area of the quadrilateral $PQRS$

(2)

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Question 5 continued

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(Total for Question 5 is 7 marks)

P 6 2 2 8 0 A 0 1 1 3 2