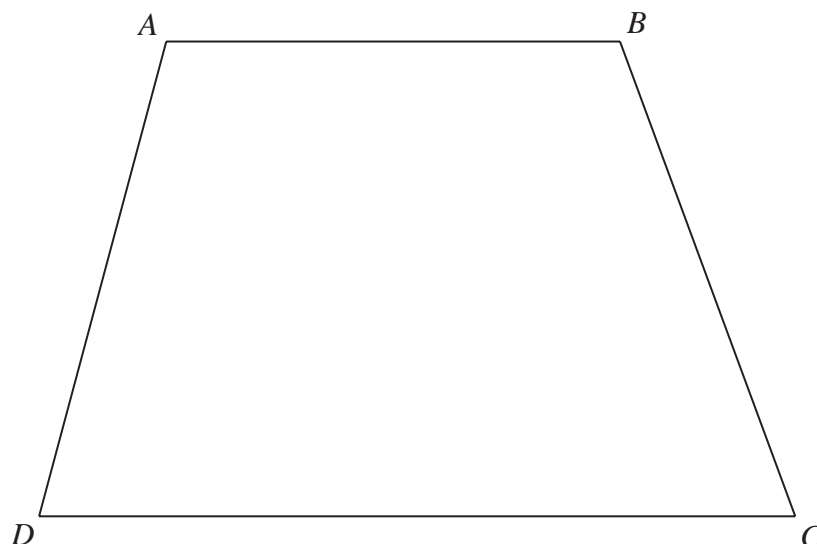


20



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The diagram shows a quadrilateral $ABCD$

- (a) Construct the locus of all points inside the quadrilateral that are 5 cm from D (1)
- (b) Using ruler and compasses only and **showing all your construction lines**, construct the locus of all points inside the quadrilateral that are equidistant from AB and BC (2)
- (c) Construct the locus of all points inside the quadrilateral that are 3 cm from BC (1)

The region R consists of all the points inside the quadrilateral that are more than 5 cm from D , nearer to BC than to AB and more than 3 cm from BC

- (d) Show, by shading, the region R
Label the region R (1)

(Total for Question 20 is 5 marks)

