

5

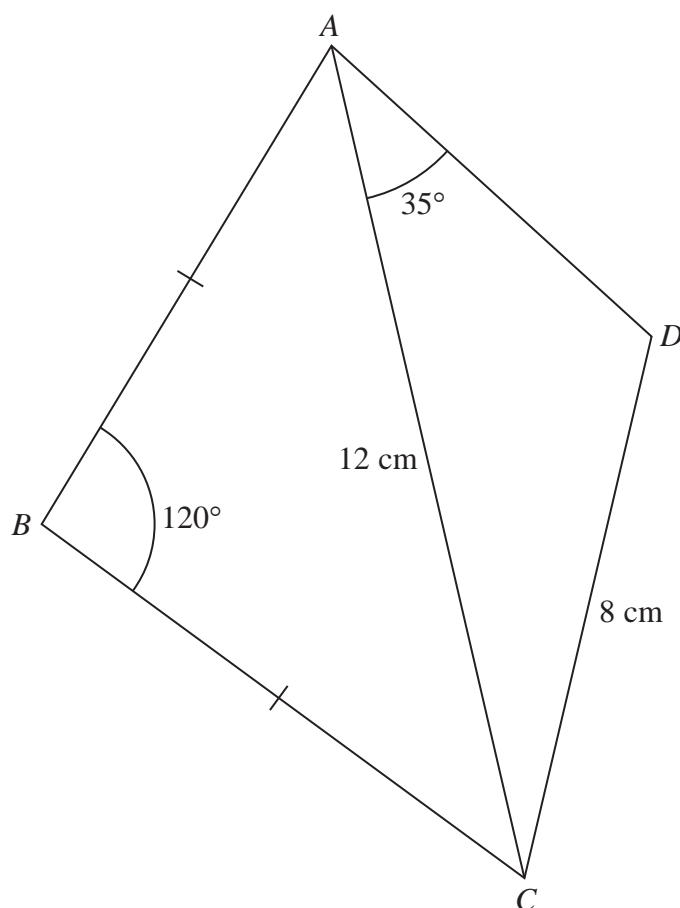
Diagram NOT
accurately drawn

Figure 2

Figure 2 shows the quadrilateral $ABCD$ in which $AB = BC$.

$DC = 8 \text{ cm}$ $AC = 12 \text{ cm}$ $\angle ABC = 120^\circ$ $\angle CAD = 35^\circ$

Find

(a) the exact length, in cm, of AB .

(2)

Given that angle ADC is obtuse, find

(b) the size, in degrees to 1 decimal place, of angle ADC ,

(3)

(c) the area, in cm^2 to 3 significant figures, of the quadrilateral $ABCD$.

(6)

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Question 5 continued

Handwriting practice area with horizontal dotted lines for writing.



P 4 7 8 7 8 A 0 1 1 3 6

Question 5 continued

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Question 5 continued**(Total for Question 5 is 11 marks)**

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