Combined Sine and Cosine Rules

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1) Combined Sine and Cosine Rules: Easier
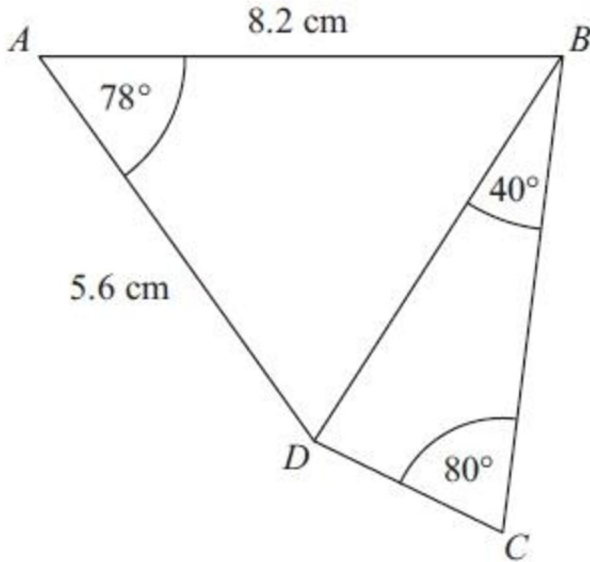
1   *ABCD* is a quadrilateral.

Diagram **NOT** accurately drawn

Work out the length of *DC*.
Give your answer correct to 3 significant figures.

.... cm
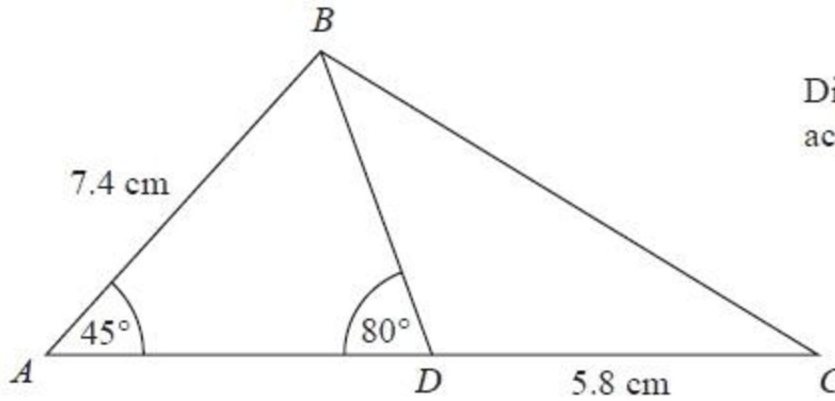
(**Total 5 marks**)

_____

2

Diagram **NOT** accurately drawn

ABC is a triangle.
D is a point on *AC*.
Angle *BAD* = 45°
Angle *ADB* = 80°
AB = 7.4 cm
DC = 5.8 cm

Work out the length of *BC*.
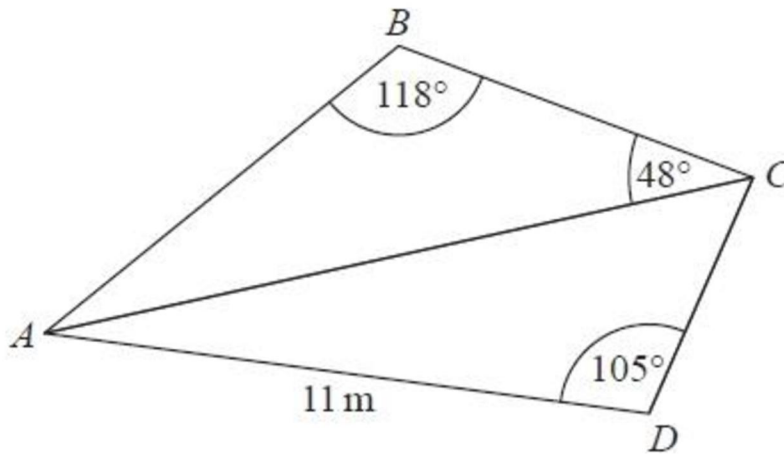Give your answer correct to 3 significant figures.

.... cm

(**Total 5 marks**)

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1) Combined Sine and Cosine Rules: Harder

3

ABC and *ADC* are triangles.

The area of triangle *ADC* is 56 m²

Work out the length of *AB*.
Give your answer correct to 1 decimal place.

.... m

(**Total 6 marks**)

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