7

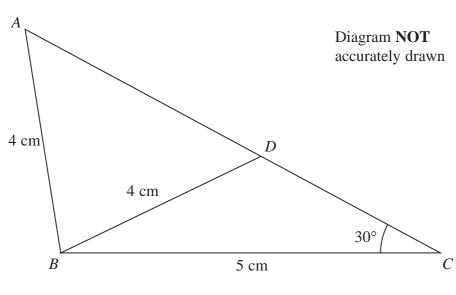


Figure 1

Figure 1 shows the triangle ABC with AB = 4 cm, BC = 5 cm and angle  $BCA = 30^{\circ}$ The point D lies on AC such that BD = 4 cm and angle BDC is obtuse.

Find

(a) the size of angle BDC, giving your answer in degrees correct to 1 decimal place,

(3)

(b) the length, in cm, of AD, giving your answer correct to 3 significant figures,

**(3)** 

(c) the area, in cm<sup>2</sup>, of triangle ABD, giving your answer correct to 3 significant figures.

**(2)** 


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Question 7 continued		



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<b>Question 7 continued</b>	
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