



SCAN ME

# The Sine Rule

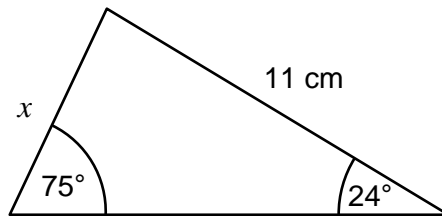


SCAN ME

REVISE THIS TOPIC

CHECK YOUR ANSWERS

1 Work out the length of side  $x$ .



Not drawn accurately

[3 marks]

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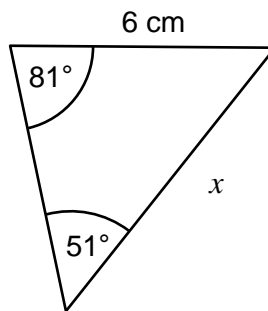
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$x =$  \_\_\_\_\_ cm

2 Work out the length of side  $x$ .



Not drawn accurately

[3 marks]

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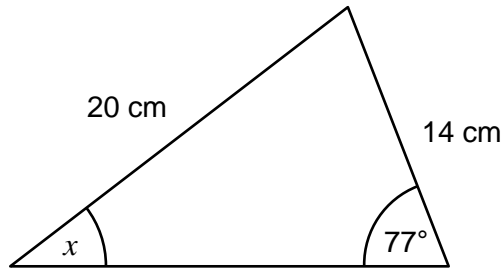


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$x =$  \_\_\_\_\_ cm



3 Work out the size of angle  $x$ .



Not drawn accurately

[3 marks]

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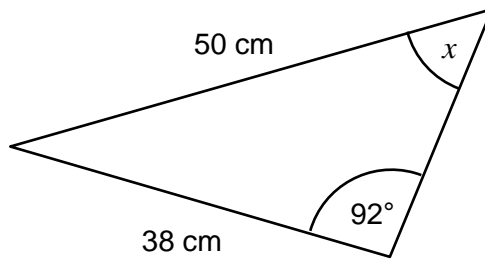
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$x =$  \_\_\_\_\_ °

4 Work out the size of angle  $x$ .



Not drawn accurately

[3 marks]

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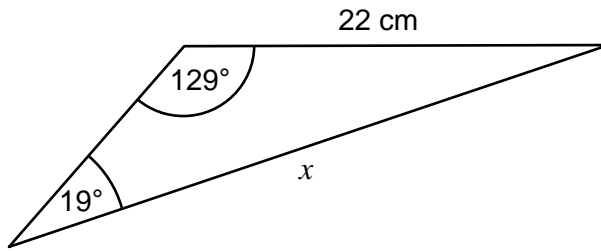
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$x =$  \_\_\_\_\_ °



5 Work out the length of side  $x$ .



Not drawn accurately

[3 marks]

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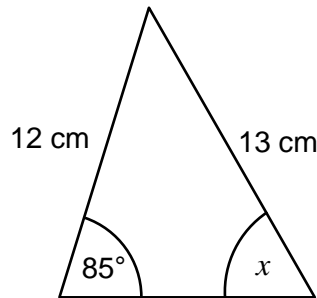
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$x =$  \_\_\_\_\_ cm

6 Work out the size of angle  $x$ .



Not drawn accurately

[3 marks]

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$x =$  \_\_\_\_\_ °

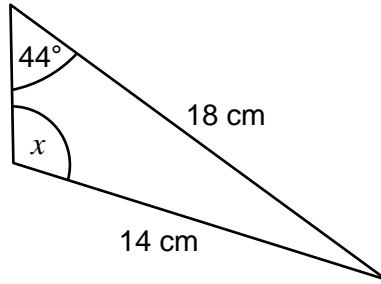
12

Turn over ►





7 Given that angle  $x$  is obtuse, work out its size.



Not drawn accurately

[3 marks]

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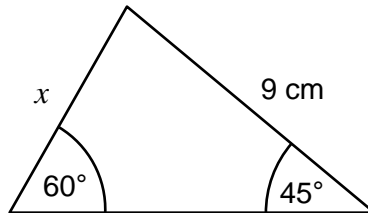
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$x =$  \_\_\_\_\_ °

8 Work out the length of side  $x$ .  
Give your answer in the form  $k\sqrt{6}$ , where  $k$  is an integer.



Not drawn accurately

[4 marks]

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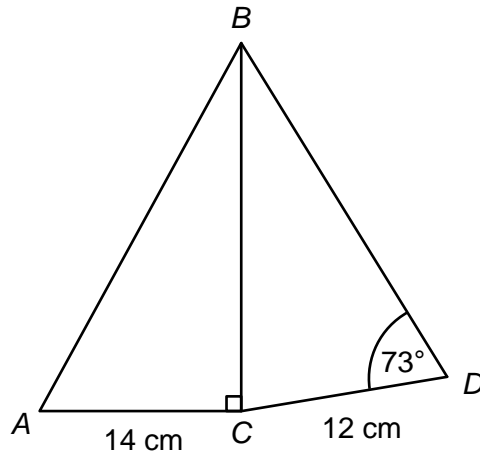


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$x =$  \_\_\_\_\_ cm



9  $ABC$  and  $BCD$  are triangles.



Not drawn  
accurately

The area of triangle  $ABC$  is  $154 \text{ cm}^2$   
Work out the size of angle  $ABD$ .

[5 marks]

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Answer \_\_\_\_\_

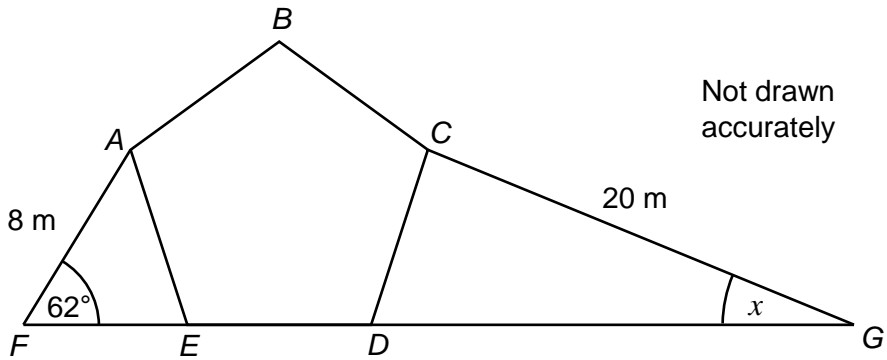
$\frac{\quad}{12}$
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Turn over ►



10

$ABCDE$  is a regular pentagon  
 $AEF$  and  $CDG$  are triangles.  
 $FEDG$  is a straight line.



Work out the size of angle  $x$ .

[6 marks]

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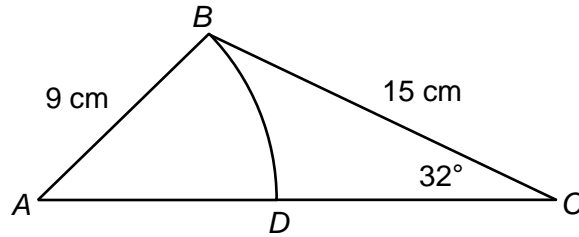
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Answer \_\_\_\_\_



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$ABC$  is a triangle.  
 $ABD$  is a sector with centre  $A$ .



Not drawn  
accurately

Work out the area of sector  $ABD$ .

[5 marks]

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Answer \_\_\_\_\_  $\text{cm}^2$

