



SCAN ME

# Circle Theorems

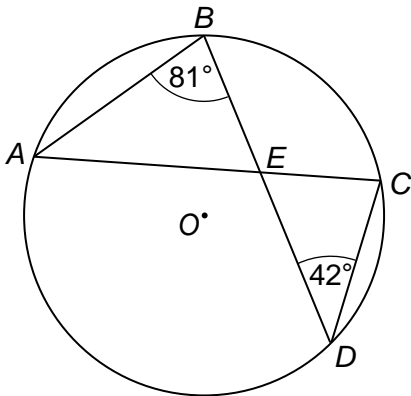


SCAN ME

← REVISE THIS TOPIC

CHECK YOUR ANSWERS →

1 A, B, C and D are points on a circle, centre O.



1 (a) Write down the size of angle CAB. [1 mark]

Answer \_\_\_\_\_ degrees

1 (b) Write down the size of angle ACD. [1 mark]

Answer \_\_\_\_\_ degrees

1 (c) Write down the size of angle AEB. [1 mark]

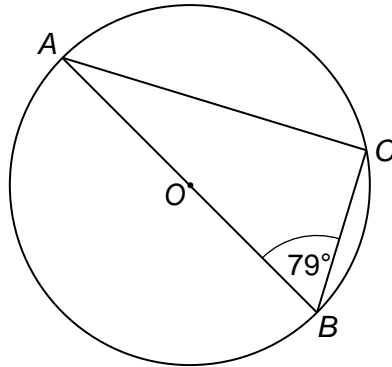
Answer \_\_\_\_\_ degrees

1 (d) Write down the size of angle BEC. [1 mark]

Answer \_\_\_\_\_ degrees



2 A, B, and C are points on a circle, centre O.



Work out the size of angle  $CAB$ .  
Give a reason for your answer.

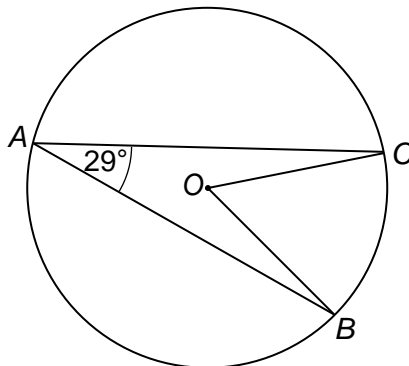
[2 marks]

Answer \_\_\_\_\_ degrees

Reason \_\_\_\_\_

\_\_\_\_\_

3 A, B, and C are points on a circle, centre O.



Work out the size of angle  $COB$ .  
Give a reason for your answer.

[2 marks]

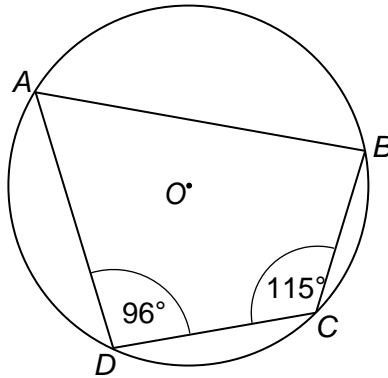
Answer \_\_\_\_\_ degrees

Reason \_\_\_\_\_

\_\_\_\_\_



- 4  $A, B, C$  and  $D$  are points on a circle, centre  $O$ .



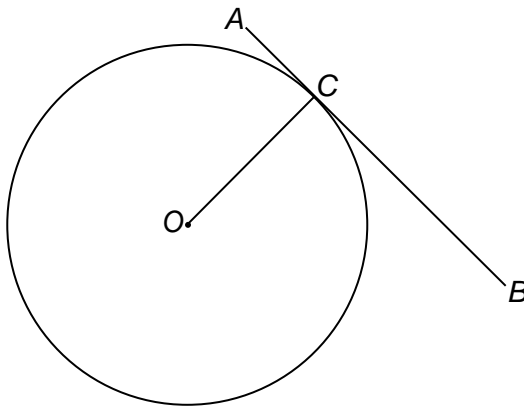
Work out the size of angle  $ABC$ .  
Give a reason for your answer.

[2 marks]

Answer \_\_\_\_\_ degrees

Reason \_\_\_\_\_

- 5  $A, B,$  and  $C$  are points on a circle, centre  $O$ .  
 $AB$  is a tangent.



Work out the size of angle  $OCB$ .  
Give a reason for your answer.

[2 marks]

Answer \_\_\_\_\_ degrees

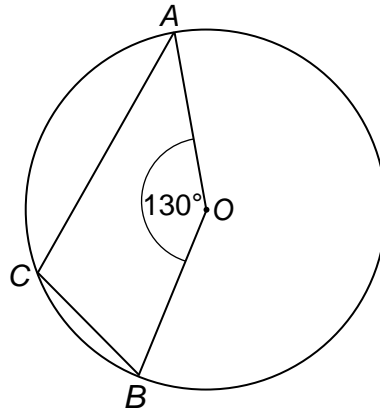
Reason \_\_\_\_\_







8 A, B, and C are points on a circle, centre O.



Work out the size of angle  $ACB$ .  
Give reasons for your answer.

[3 marks]

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Answer \_\_\_\_\_ degrees

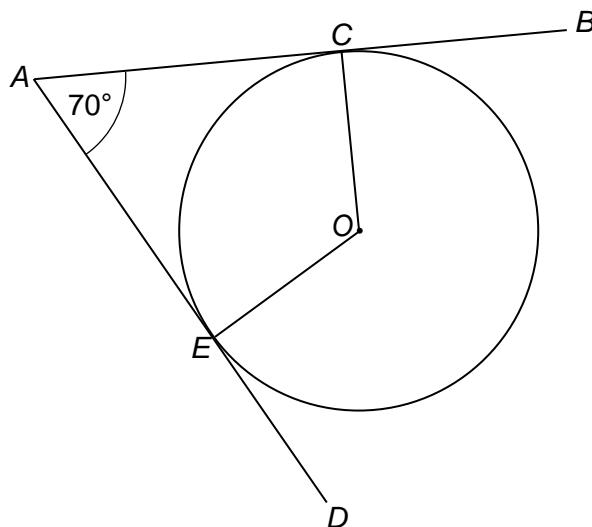








- 11  $C$  and  $E$  are points on a circle, centre  $O$ .  
 $AB$  and  $AD$  are tangents.



- 11 (a) Work out the size of angle  $COE$ . [2 marks]

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Answer \_\_\_\_\_ degrees

- 11 (b)  $OC = 5$  cm  
Work out the length of  $CA$  to 1 decimal place. [2 marks]

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Answer \_\_\_\_\_ cm

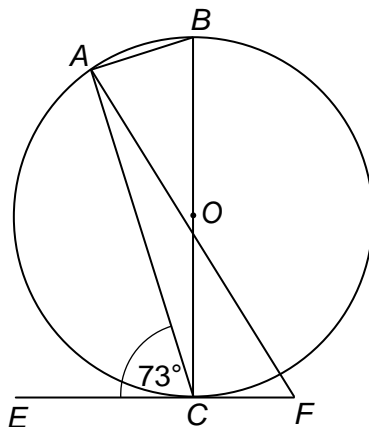
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8

Turn over ►





- 13  $A$ ,  $B$ , and  $C$  are points on a circle, centre  $O$ .  
 $EF$  is a tangent.  
Angle  $FAB = 5 \times$  Angle  $CAF$ .



Work out the size of angle  $AFC$ .

[4 marks]

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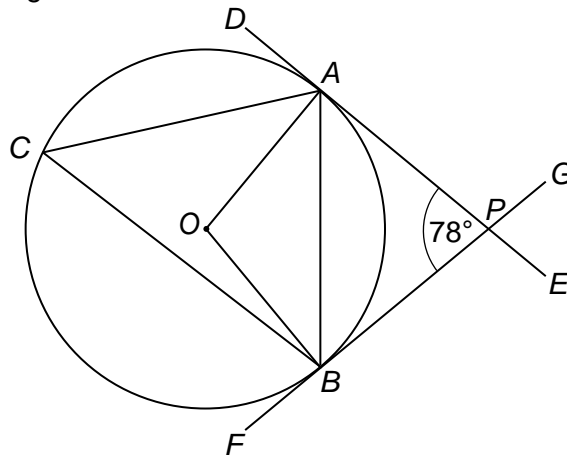
Answer \_\_\_\_\_ degrees

$\frac{\quad}{8}$

Turn over ►



- 14  $A$ ,  $B$ , and  $C$  are points on a circle, centre  $O$ .  
 $DE$  and  $FG$  are tangents.



- 14 (a) Work out the size of angle  $ACB$ .

[2 marks]

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Answer \_\_\_\_\_ degrees

- 14 (b) Work out the size of angle  $ABP$ .

[2 marks]

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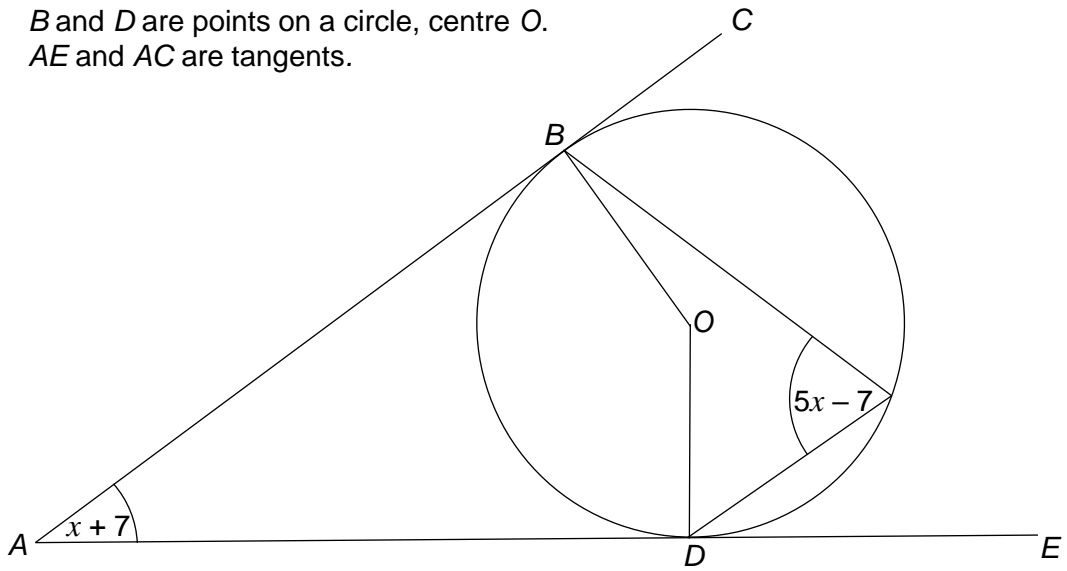
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Answer \_\_\_\_\_ degrees





- 16  $B$  and  $D$  are points on a circle, centre  $O$ .  
 $AE$  and  $AC$  are tangents.



- 16 (a) Work out the value of  $x$  [3 marks]

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Answer \_\_\_\_\_ degrees

- 16 (b)  $AD = 30$  cm  
Work out the length of  $OD$  to 3 significant figures. [3 marks]

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Answer \_\_\_\_\_ cm

$\frac{\quad}{6}$
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