



SCAN ME

Circle Theorems

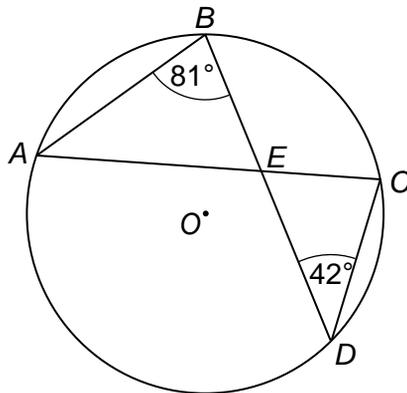


SCAN ME

← 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]

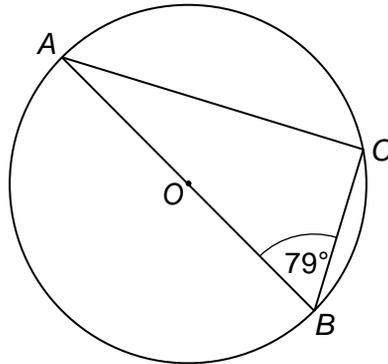
Answer _____ degrees

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.



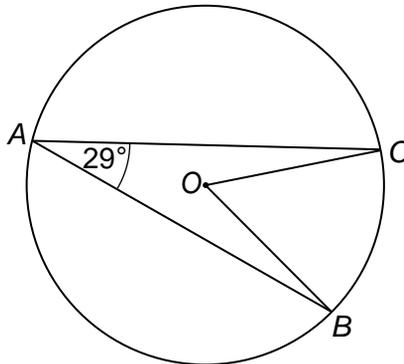
Work out the size of angle CAB .
Give a reason for your answer.

[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.

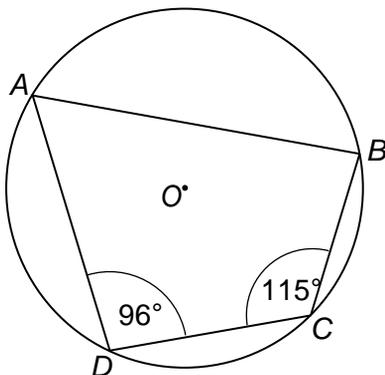
[2 marks]

Answer _____ degrees

Reason _____



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



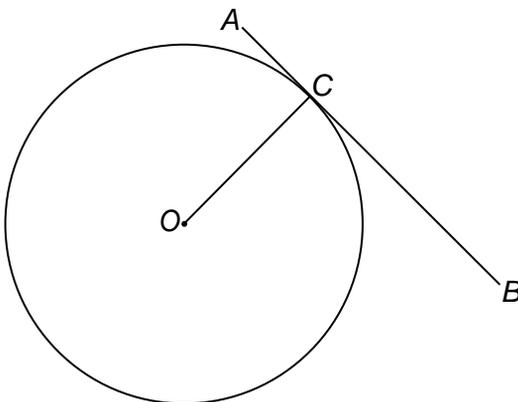
Work out the size of angle ABC .
Give a reason for your answer.

[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.

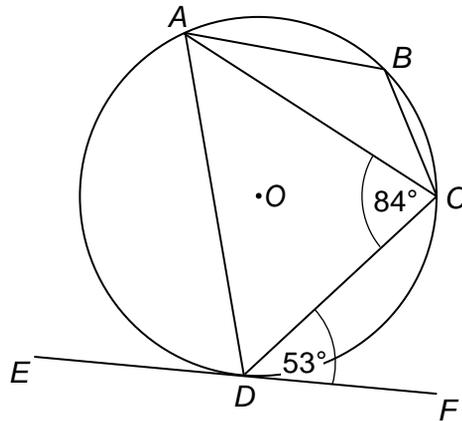
[2 marks]

Answer _____ degrees

Reason _____



- 7 A, B, C and D are points on a circle, centre O .
 EF is a tangent.



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

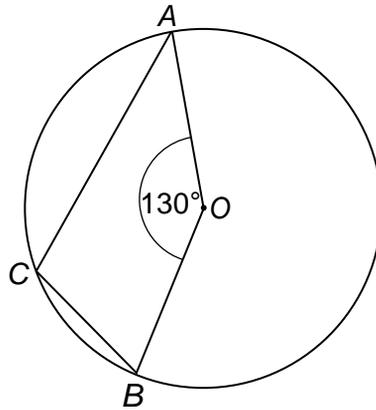
[4 marks]

Answer _____ degrees

Turn over ►



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



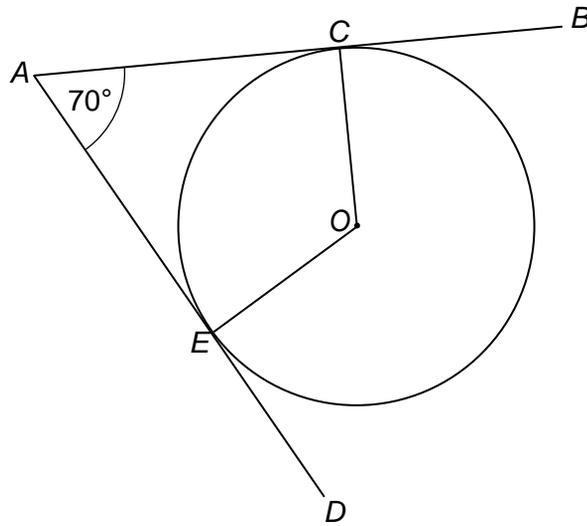
Work out the size of angle ACB .
Give reasons for your answer.

[3 marks]

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]

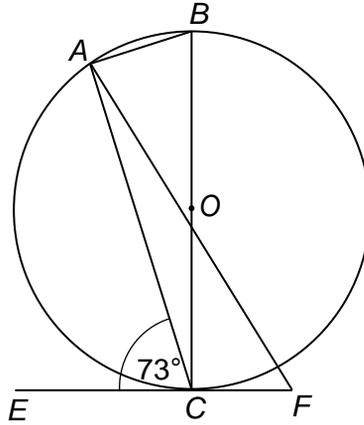
Answer _____ degrees

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

Answer _____ cm



- 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]

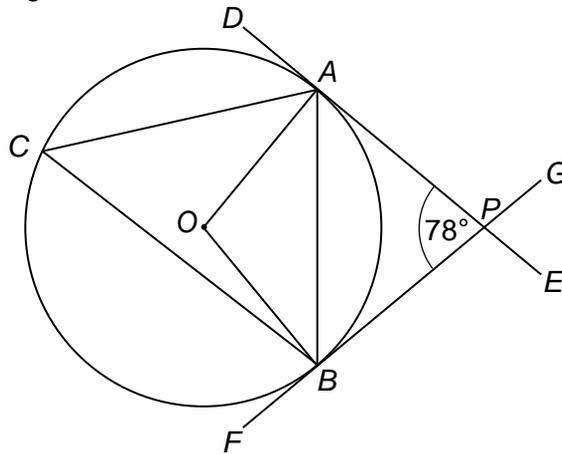
Answer _____ degrees

$\frac{\quad}{8}$

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]

Answer _____ degrees

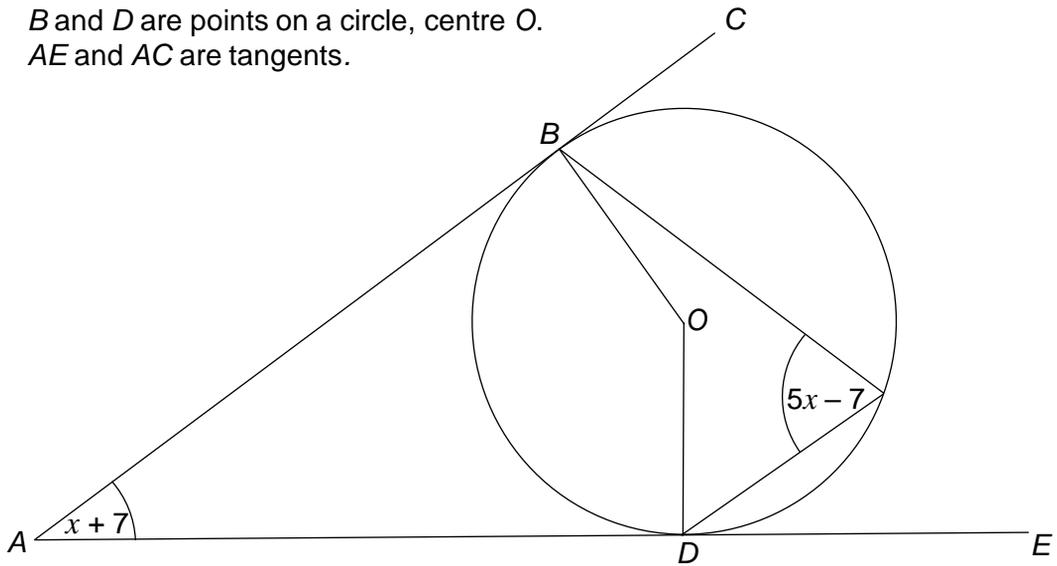
- 14 (b) Work out the size of angle ABP .

[2 marks]

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]

Answer _____ degrees

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

Answer _____ cm

$\frac{\quad}{6}$

