

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

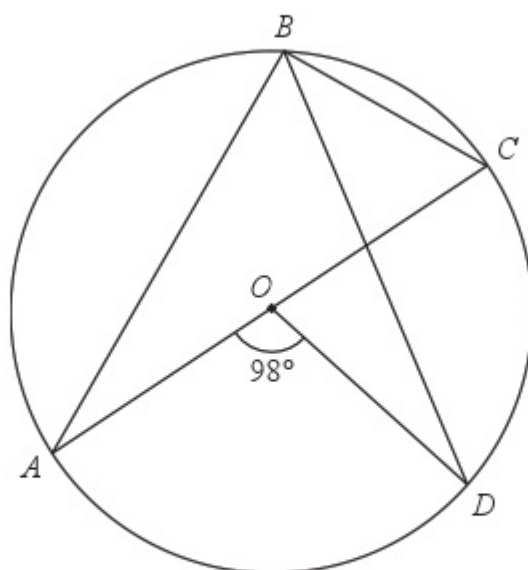


Diagram **NOT**  
accurately drawn

$AOC$  is a diameter of the circle.

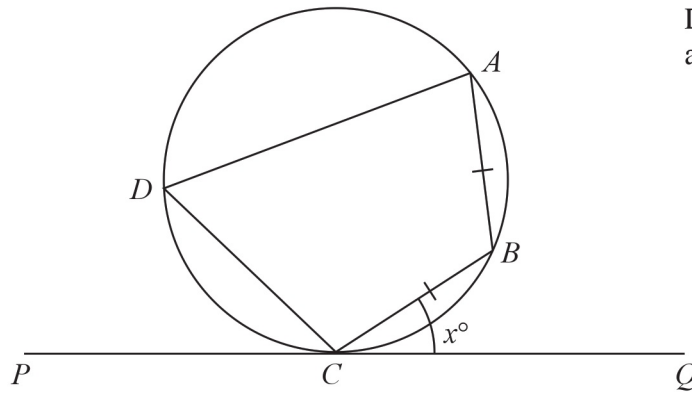
Angle  $AOD = 98^\circ$

Work out the size of angle  $DBC$ .

Give a reason for each stage in your working.

.....  
(Total for Question 15 is 4 marks)

Diagram **NOT**  
accurately drawn



$A, B, C$  and  $D$  are points on a circle.  
 $PCQ$  is a tangent to the circle.  
 $AB = CB$ .

Angle  $BCQ = x^\circ$

Prove that angle  $CDA = 2x^\circ$

Give reasons for each stage in your working.

(Total for Question 20 is 5 marks)

