AQA, OCR, Edexcel

GCSE

GCSE Maths

Circle Theorems Answers

Name:

M M E

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Total Marks: /19

Circle theorems

1. Points **A**, **B** and **C** are all on the circumference of the circle, **O** represents the centre. Calculate the angle ***x***.

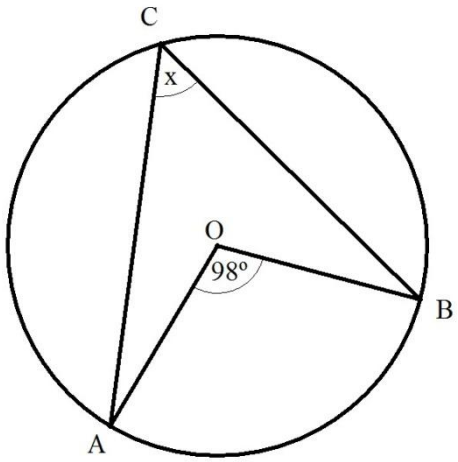


Diagram **NOT** accurately drawn

$= 49^o$

(1 Mark)

2. Points **A**, **B** and **C** are all on the circumference of the circle. Line **A B** is a straight line going through the centre **O**. Calculate angle ***x***

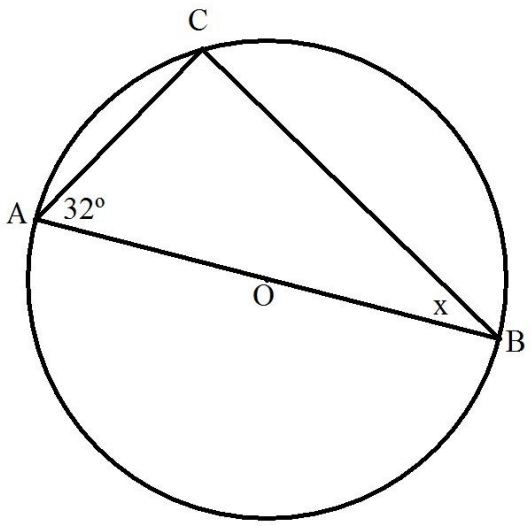


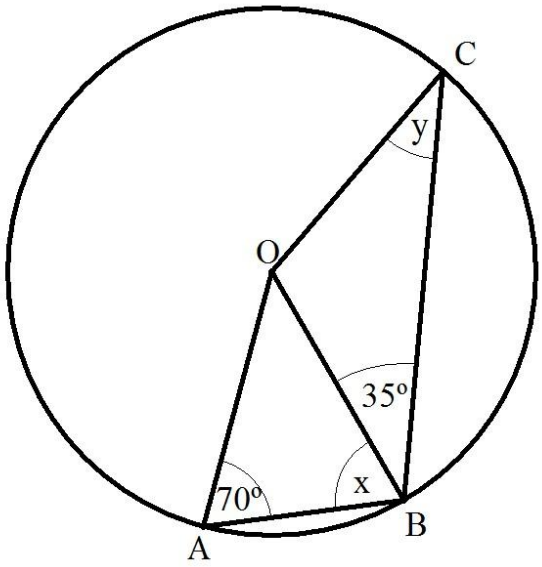
Diagram **NOT** accurately drawn

$= 58^o$

(2 Marks)

3. Points **A**, **B** and **C** are all on the circumference of the circle. **O** represents the centre. Calculate the Angle of $\boldsymbol{x}$ and y.

Diagram **NOT** accurately drawn

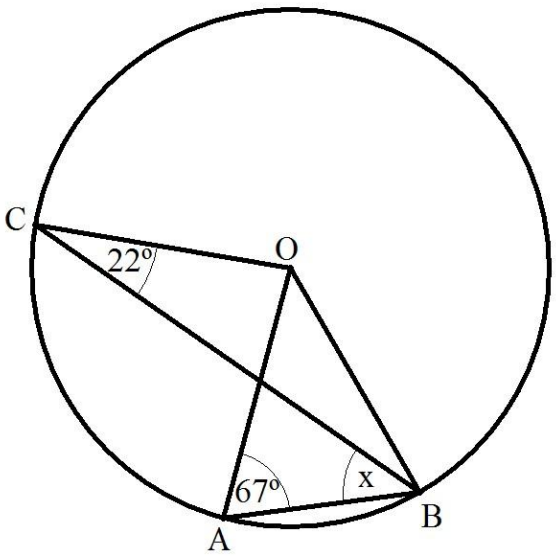


$x = 70^o, y = 35^o$

(2 Marks)

4. Points **A**, **B** and **C** are all on the circumference of the circle. **O** represents the centre. Calculate the angle $\boldsymbol{x}$.

Diagram **NOT** accurately drawn

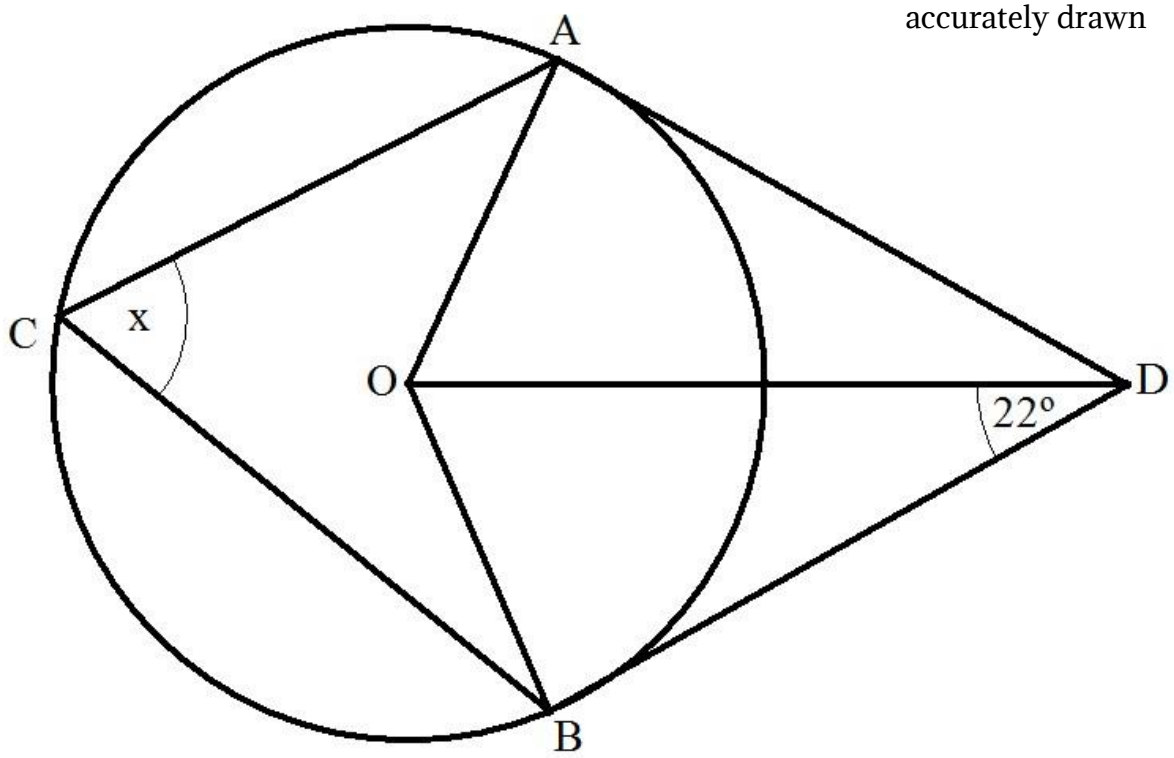


$= 45^o$

(3 Marks)

5. Points **A, B** and **C** are all on the circumference of the circle.
   O represents the centre.
   DA and **DB** are tangents to the circle.
   Angle **BDO** = 22^o
   Work out the size of angle x.

Diagram **NOT** accurately drawn

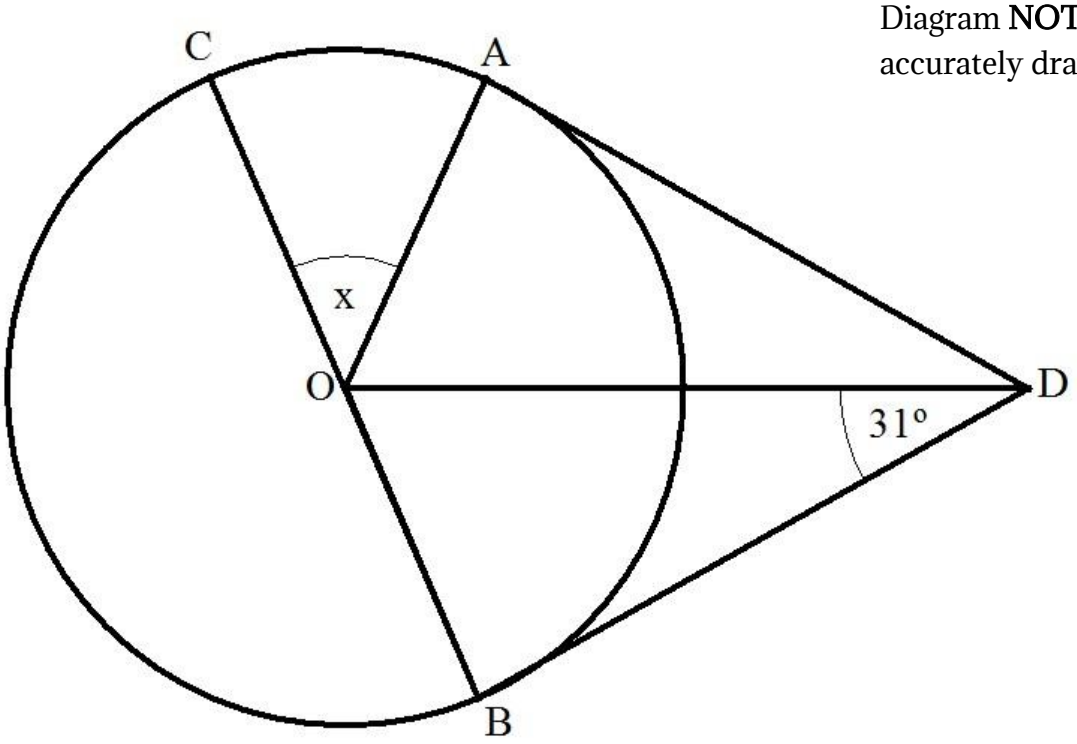


$x = 68^o$

(3 Marks)

6. Points **A, B** and **C** are all on the circumference of the circle.
O represents the centre.
DA and **DB** are tangents to the circle.
Angle **BDO** = $\mathbf{31^o}$
Work out the size of angle $\boldsymbol{x}$.

Diagram **NOT** accurately drawn

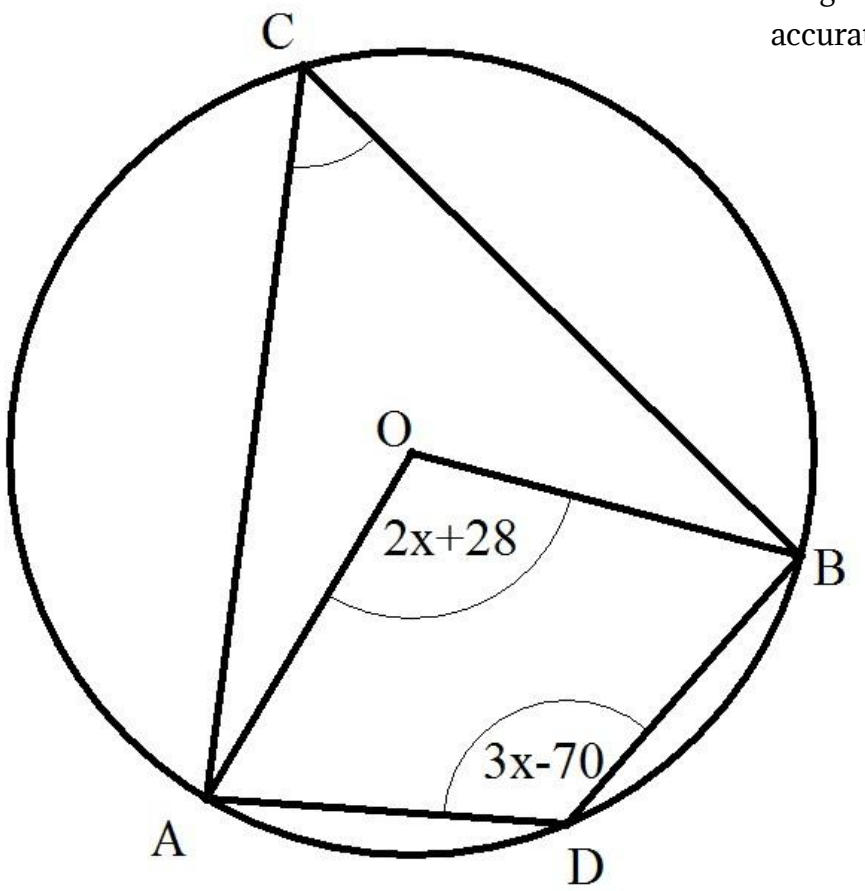


$x = 62^o$

(3 Marks)

7. Points **A, B** and **C** are all on the circumference of the circle.
O represents the centre.
Angle **AOB** = $\mathbf{2x + 28}$
Angle ADB = $\mathbf{3x - 70}$
Calculate the value for $\boldsymbol{x}$. (Hard)

Diagram **NOT** accurately drawn



$x = 59$

(5 Marks)