

**AQA, OCR, Edexcel**

**GCSE**

# **GCSE Maths**

## Circle Theorems Questions

Name:

**M**

**M**

**E**

Mathsmadeeasy.co.uk

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  $x$ .

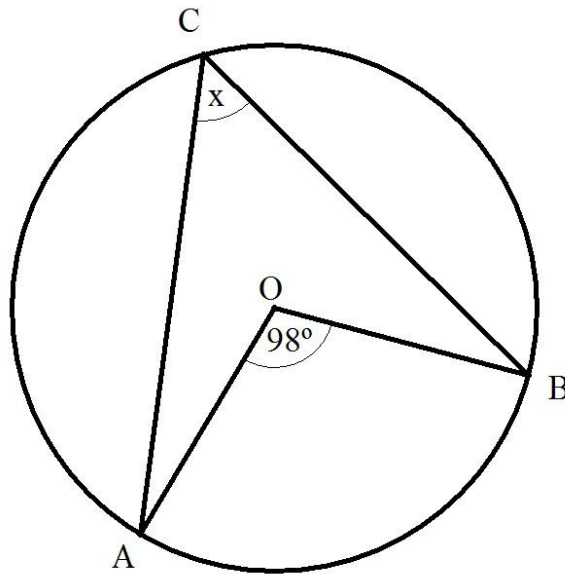


Diagram **NOT** accurately drawn

(1 Mark)

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

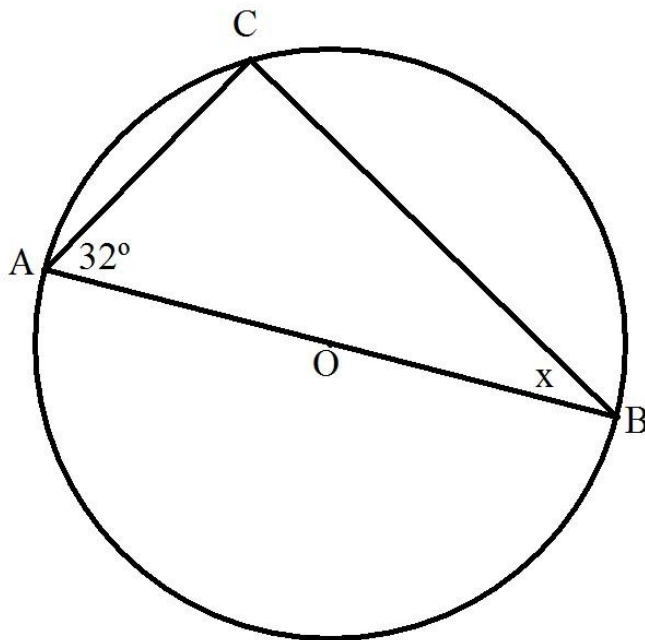
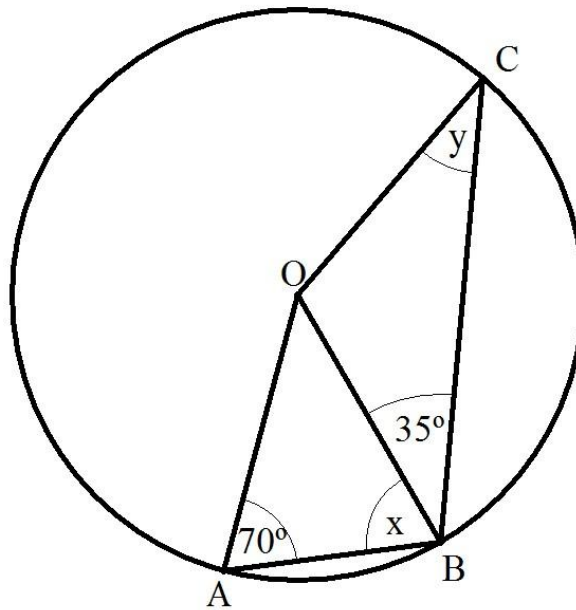


Diagram **NOT** accurately drawn

(2 Marks)

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

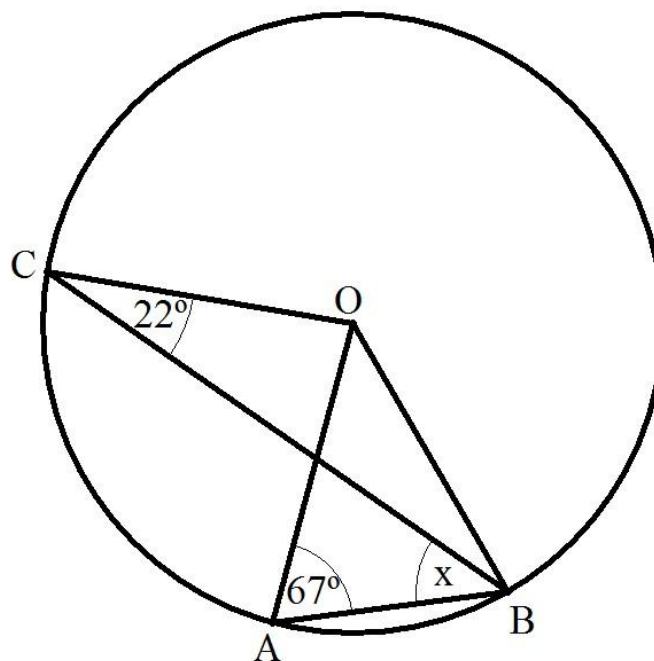
Diagram NOT accurately drawn



(2 Marks)

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

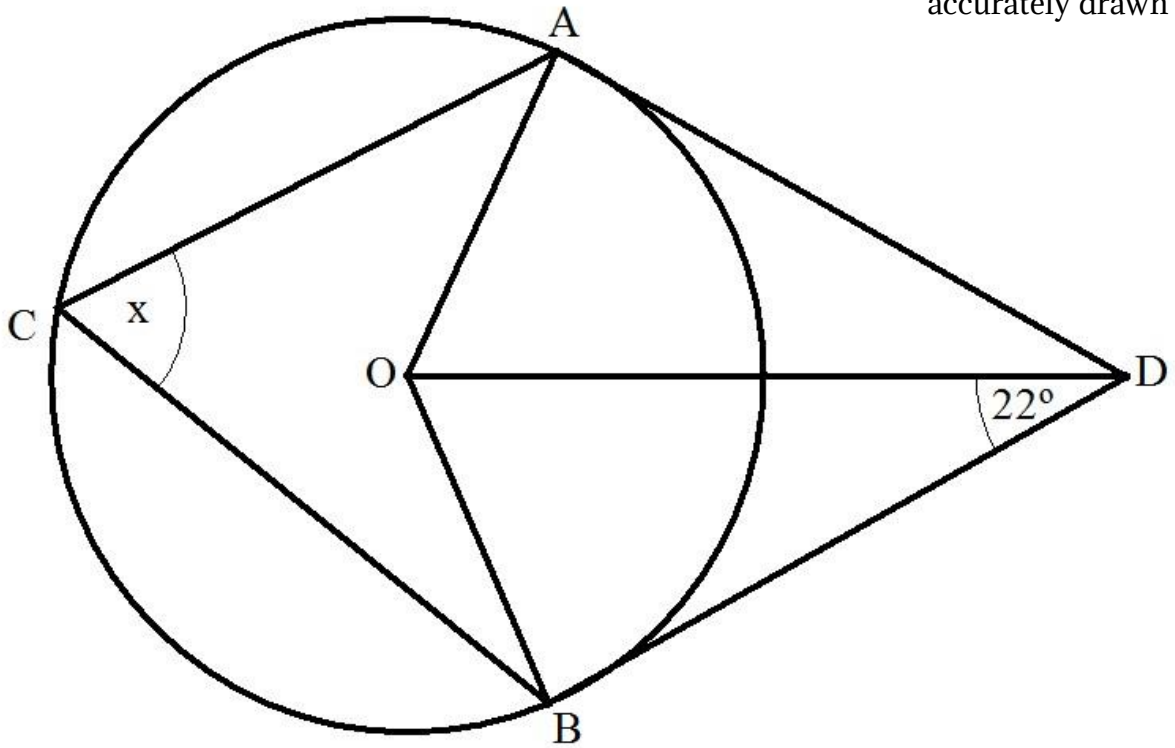
Diagram NOT accurately drawn



(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** =  $22^\circ$   
Work out the size of angle  $x$ .

Diagram NOT  
accurately drawn



(3 Marks)

6. Points **A**, **B** and **C** are all on the circumference of the circle.

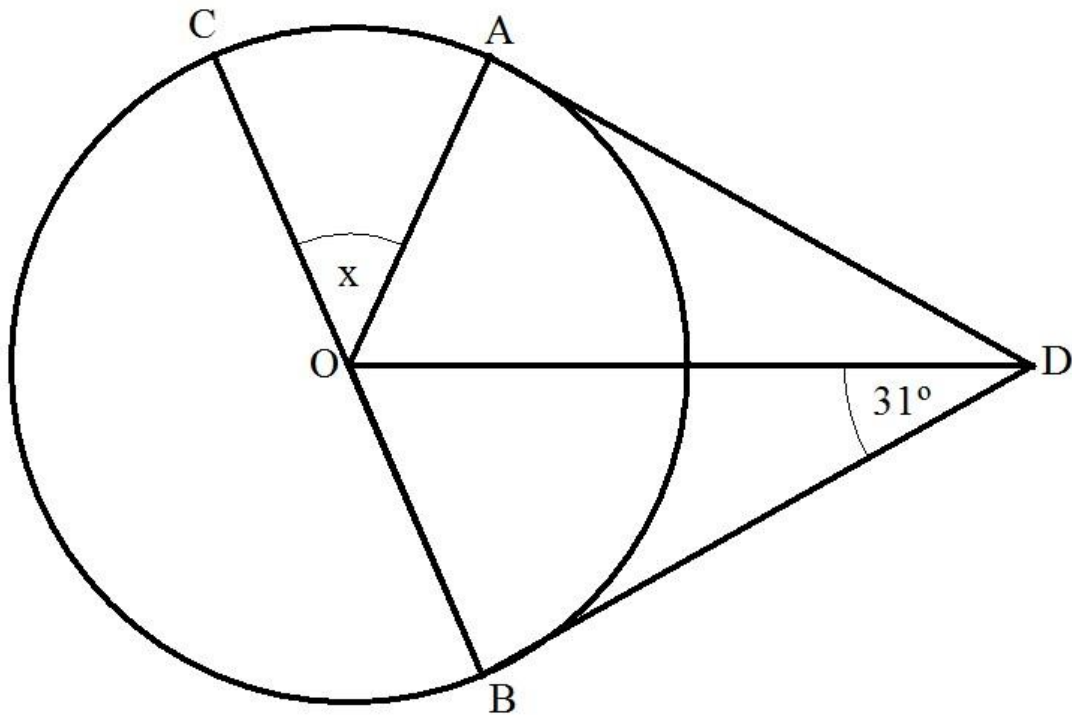
**O** represents the centre.

**DA** and **DB** are tangents to the circle.

Angle **BDO** =  $31^\circ$

Work out the size of angle  $x$ .

Diagram **NOT**  
accurately drawn



(3 Marks)

7. Points **A**, **B** and **C** are all on the circumference of the circle.

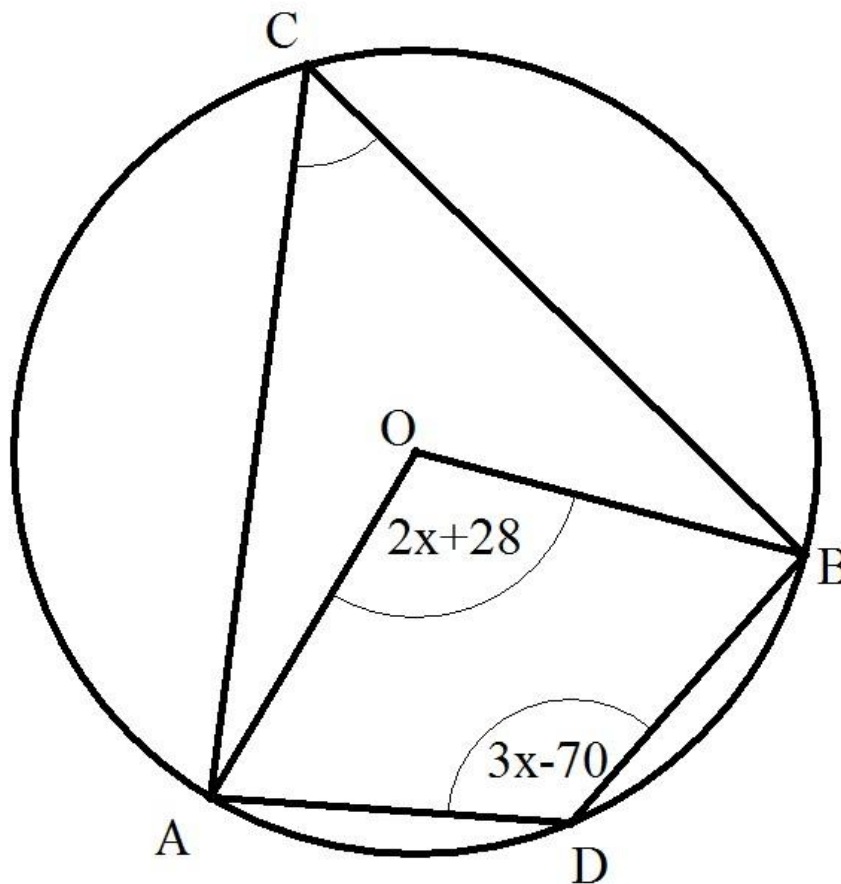
**O** represents the centre.

Angle **AOB** =  $2x + 28$

Angle **ADB** =  $3x - 70$

Calculate the value for  $x$ . **(Hard)**

Diagram **NOT**  
accurately drawn



(5 Marks)