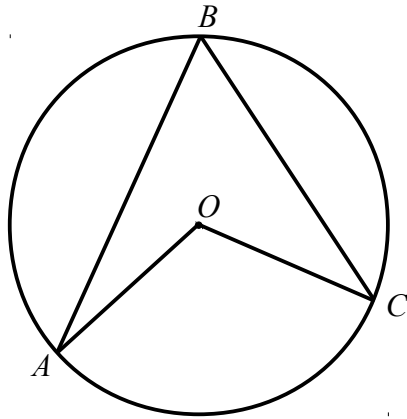


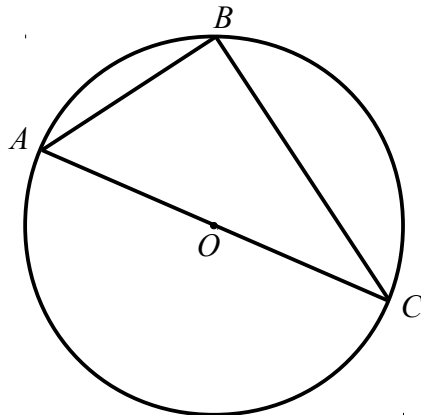
1



A , B and C are points on the circumference of a circle, centre O .
 Prove that angle AOC is twice the size of angle ABC .
 You must **not** use any circle theorems in your proof.

(4 marks)

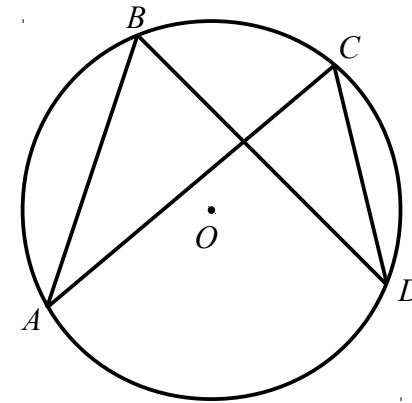
2



A , B and C are points on the circumference of a circle, centre O .
 AOC is a diameter of the circle.
 Prove that angle ABC is 90°
 You must **not** use any circle theorems in your proof.

(4 marks)

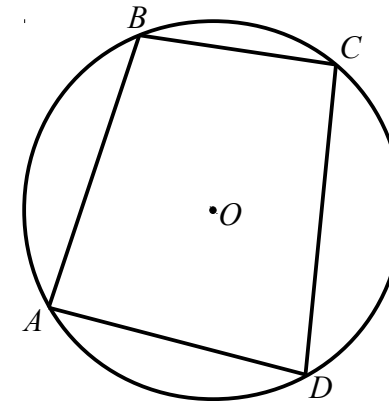
3



A , B , C and D are points on the circumference of a circle, centre O .
 Prove that angle ABD and angle ACD are equal.

(2 marks)

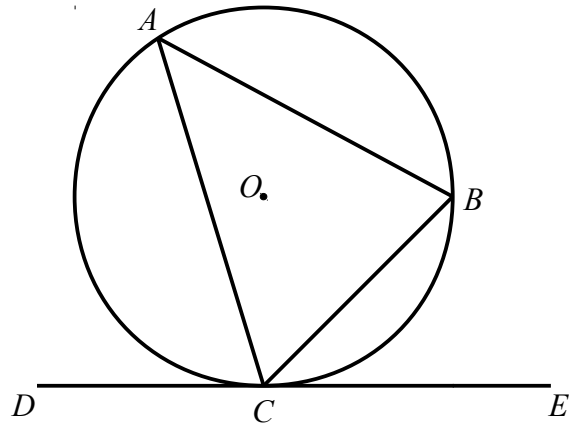
4



A , B , C and D are points on the circumference of a circle, centre O .
 Prove that angle ABC and angle ADC add to 180°

(4 marks)

5



A , B and C are points on the circumference of a circle, centre O .
 DCE is a tangent to the circle.

Prove that angle BCE and angle BAC are equal.

(4 marks)
