



SCAN ME

Circle Theorem Proofs

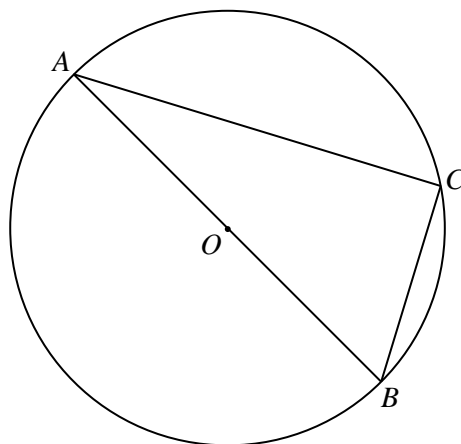


SCAN ME

REVISE THIS
TOPIC

CHECK YOUR
ANSWERS

1



A , B and C are points on the circumference of a circle, centre O .
 AOB is a diameter of the circle.

Prove that angle $ACB = 90^\circ$

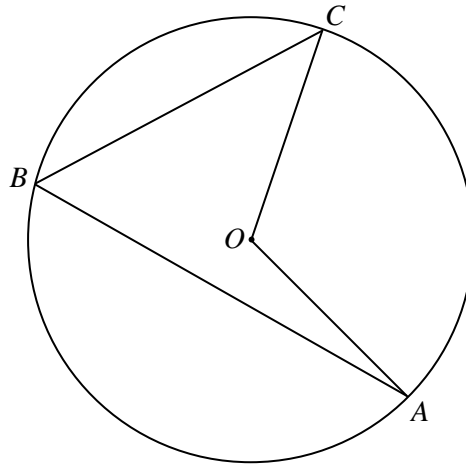
(Total for Question 1 is 4 marks)



1



2



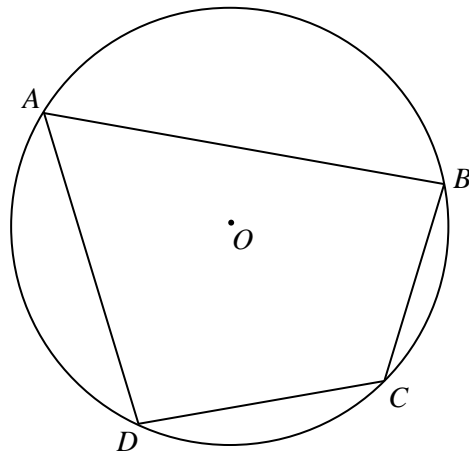
A , B and C are points on the circumference of a circle, centre O .

Prove that $\text{angle } AOC = 2 \times \text{angle } ABC$

(Total for Question 2 is 4 marks)



3



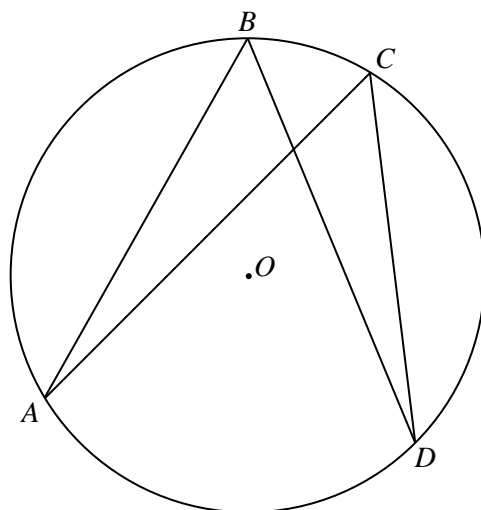
A, B, C and D are points on the circumference of a circle, centre O .

Prove that $\text{angle } ABC + \text{angle } CDA = 180^\circ$

(Total for Question 3 is 4 marks)



4



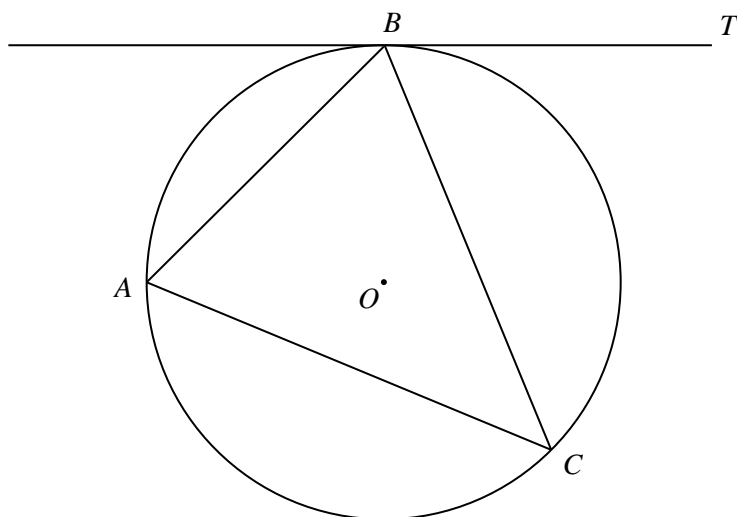
A, B, C and D are points on the circumference of a circle, centre O .

Prove that $\text{angle } ABD = \text{angle } ACD$

(Total for Question 4 is 2 marks)



5



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

Prove that $\text{angle } CAB = \text{angle } CBT$

(Total for Question 5 is 4 marks)

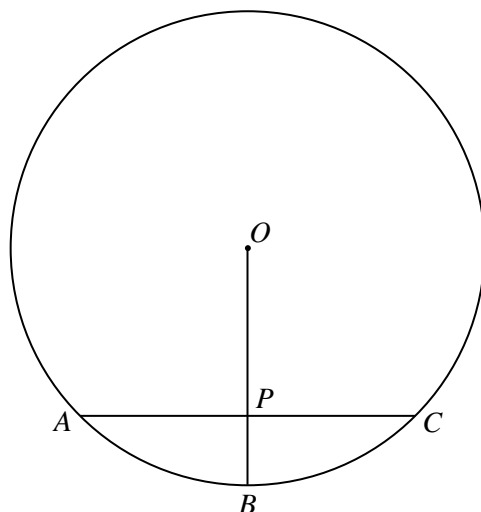


5





6



A , B and C are points on the circumference of a circle, centre O .
The lines OB and AC intersect at the point P .

Angle $AP O = \text{angle } OP C = 90^\circ$

Prove that $AP = PC$

(Total for Question 6 is 4 marks)

