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MATHEMATIC A

TOPIC- Geometry

(Circle Properties)

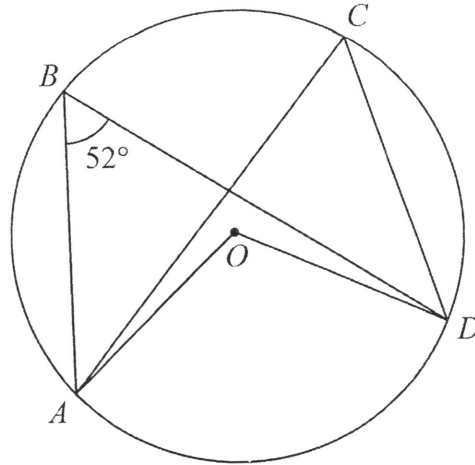


Diagram NOT
accurately drawn

A, B, C and D are points on a circle, centre O .
Angle $ABD = 52^\circ$

(a) (i) Write down the size of angle ACD .

(ii) Give a reason for your answer.

(2)

(b) (i) Write down the size of angle AOD .

(ii) Give a reason for your answer.

(2)

(Total for Question 14 is 4 marks)



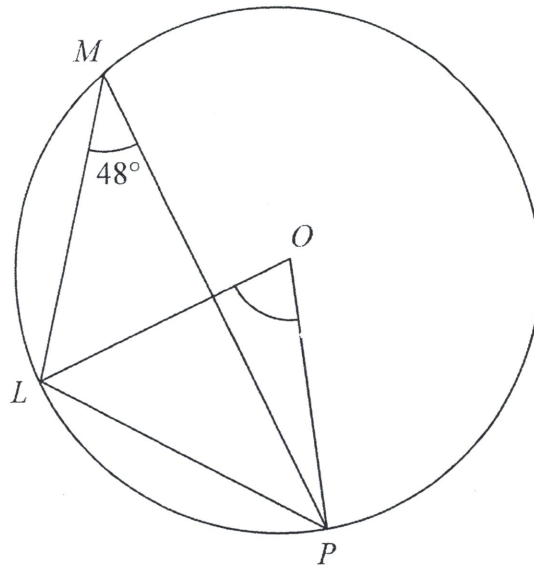


Diagram NOT
accurately drawn



L , M and P are points on a circle, centre O
Angle $LMP = 48^\circ$

(a) (i) Write down the size of angle LOP

(ii) Give a reason for your answer.

(2)



13

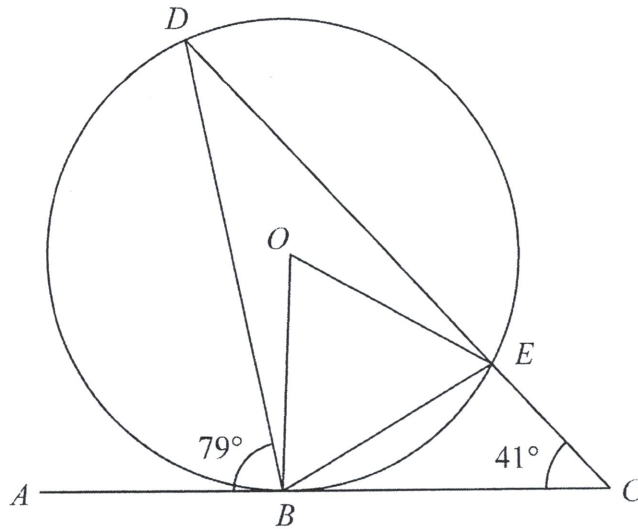


Diagram NOT accurately drawn



B , D and E are points on a circle, centre O .
 ABC is a tangent to the circle.
 DEC is a straight line.
 Angle $ABD = 79^\circ$ and angle $ECB = 41^\circ$

(a) Write down the size of angle BED .

(1)

(b) Work out the size of angle BOE .

(2)

(Total for Question 13 is 3 marks)



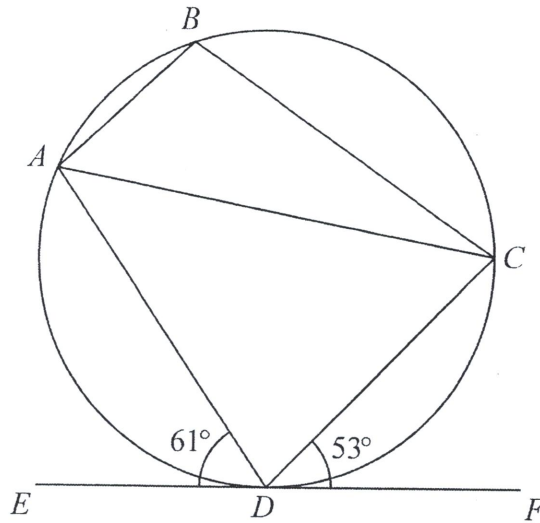


Diagram NOT
accurately drawn



A, B, C and D are points on a circle.
 EDF is the tangent to the circle at D .

Angle $ADE = 61^\circ$ and angle $CDF = 53^\circ$

(a) (i) Write down the size of angle ACD .

(ii) Give a reason for your answer.

(b) Work out the size of angle ABC .

(Total for Question 15 is 4 marks)



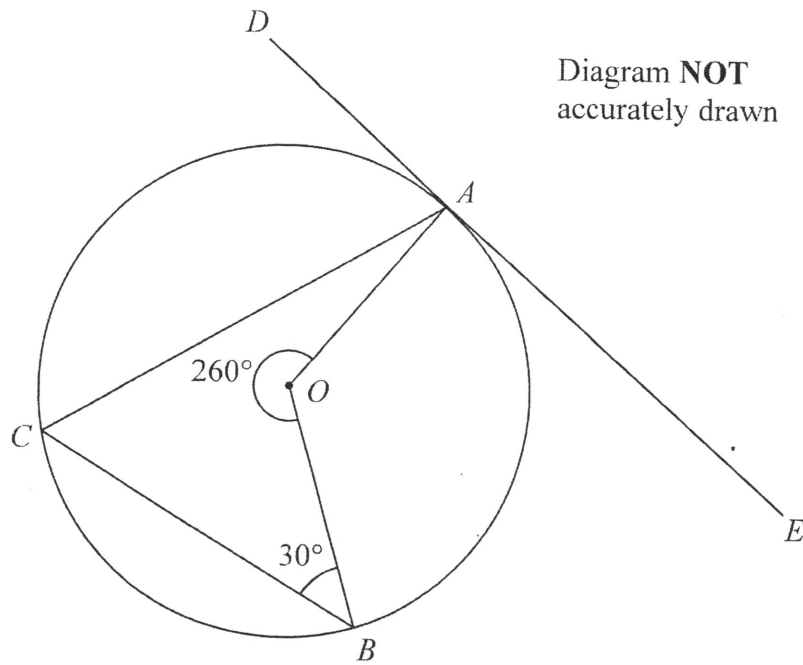


Diagram NOT accurately drawn



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

(a) Work out the size of angle ACB .

(2)

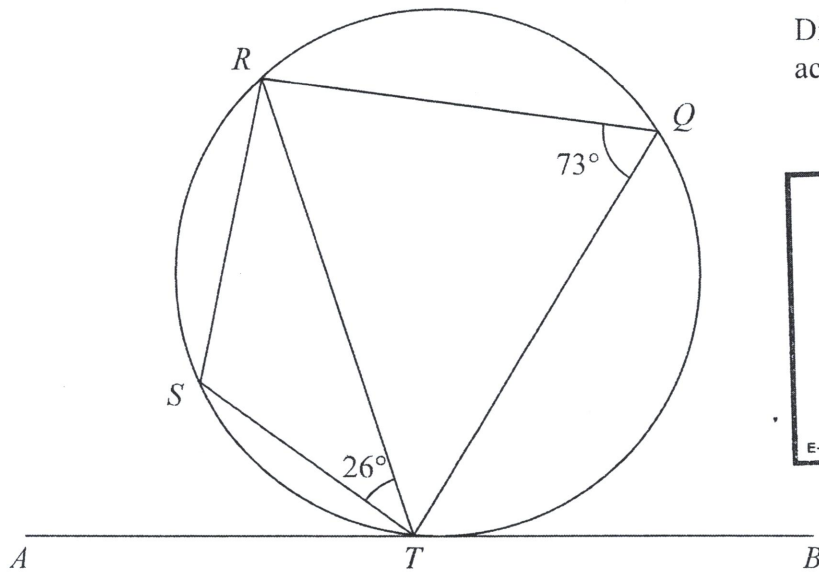
(b) Work out the size of angle CAD .

(2)

(Total for Question 17 is 4 marks)



Diagram NOT
accurately drawn



Q, R, S and T are points on a circle.
 ATB is the tangent to the circle at T

Angle $STR = 26^\circ$
Angle $RQT = 73^\circ$

- (b) Work out the size of angle STA
Give a reason for each stage in your working.

(3)

(Total for Question 17 is 5 marks)

