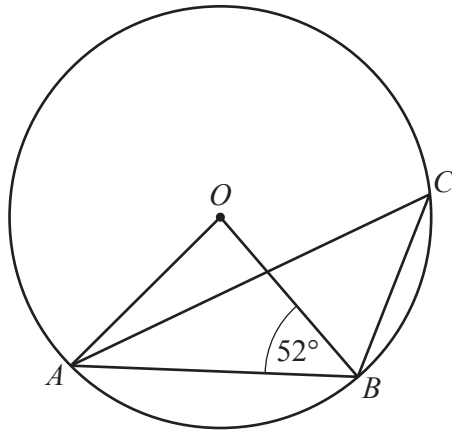


- 6 (a) The interior angle of a regular polygon is 156° .

Calculate the number of sides of this polygon.

..... [2]

(b)



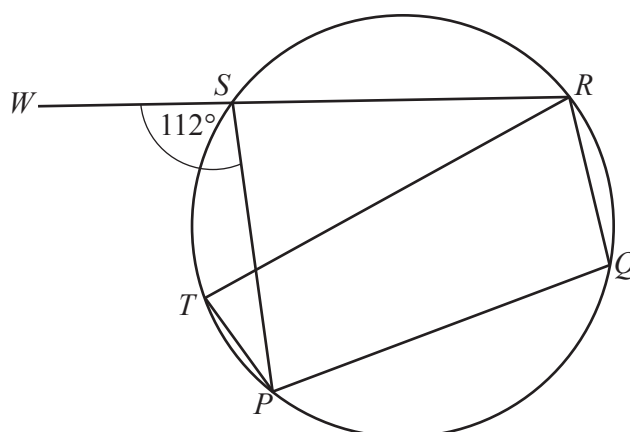
NOT TO
SCALE

A , B and C lie on a circle, centre O .
Angle $OBA = 52^\circ$.

Calculate angle ACB .

Angle $ACB =$ [2]

(c)

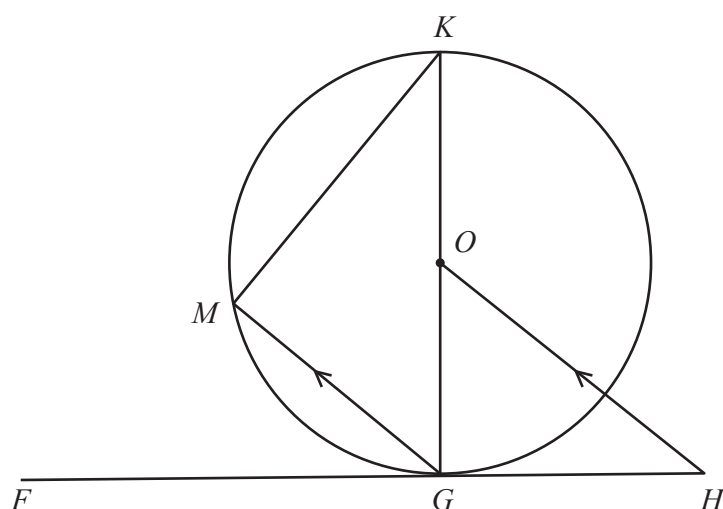
NOT TO
SCALE

P, Q, R, S and T lie on a circle.
 WSR is a straight line and angle $WSP = 112^\circ$.

Calculate angle PTR .

Angle $PTR = \dots\dots\dots$ [2]

(d)

NOT TO
SCALE

G, K and M lie on a circle, centre O .
 FGH is a tangent to the circle at G and MG is parallel to OH .

Show that triangle GKM is mathematically similar to triangle OHG .
 Give a geometrical reason for each statement you make.

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[4]