NAME :

Centre of Excellence in Mathematics
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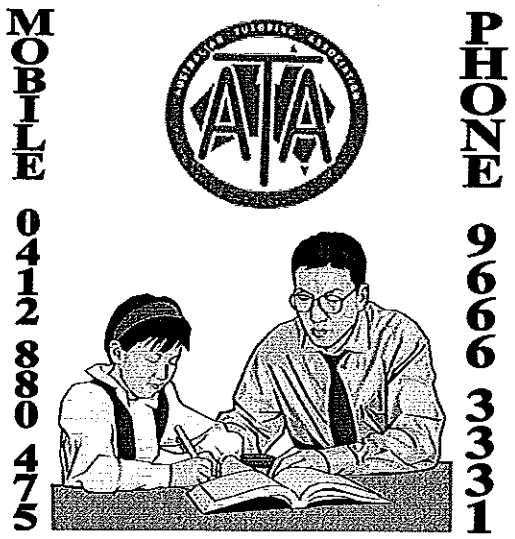

YEAR 10 – ADVANCED MATHS REVIEW BOOKLET 1

TOPIC: CIRCLE GEOMETRY

Received on			**Check corrections on pages:**
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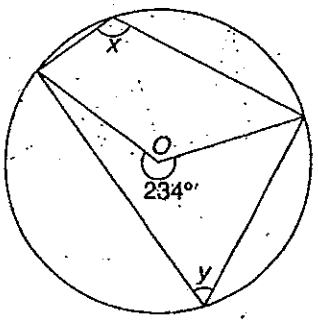
Tutor's Initials **Dated on**

EXERCISES:

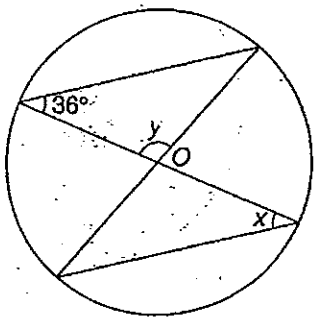
(1) Find the value of the unknown in each of the following circles, centre C, giving reasons.

(a)



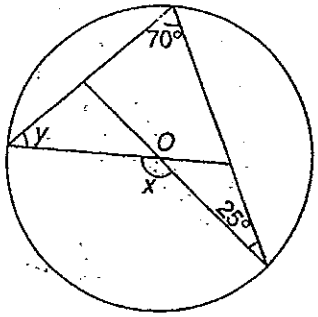
$\boxed{x = 117^0, y = 63^0}$

(b)



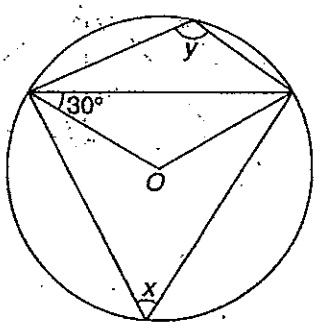
$\boxed{x = 36^0, y = 108^0}$

(c)



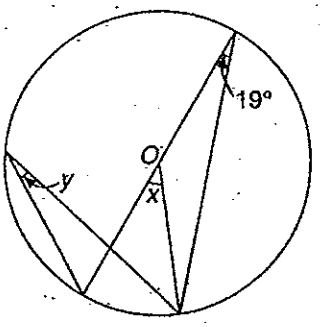
$\boxed{x = 140^0, y = 45^0}$

(d)



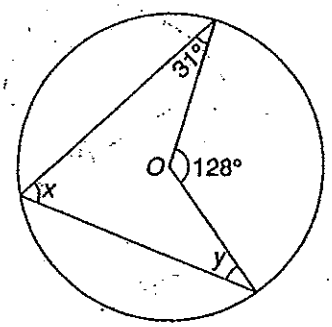
$\boxed{x = 60^0, y = 120^0}$

(e)



$\boxed{x = 38^0, y = 19^0}$

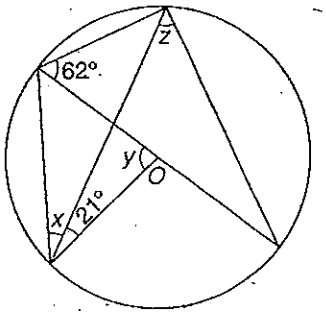
(f)



$\boxed{x = 64^0, y = 33^0}$

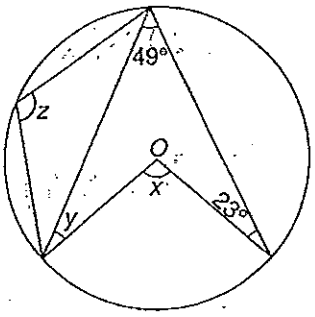
(2) Find the value of each pronumeral , giving reasons for your answer.

(a)



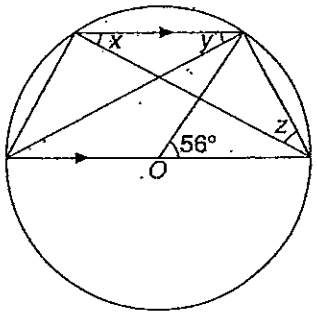
$\boxed{x = 28^0, y = 82^0, z = 49^0}$

(b)



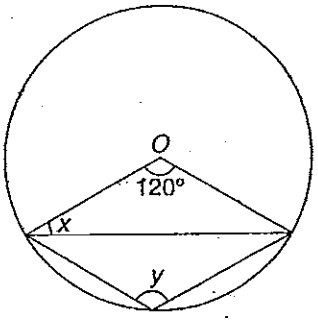
$\boxed{x = 98^0, y = 26^0, z = 116^0}$

(c)



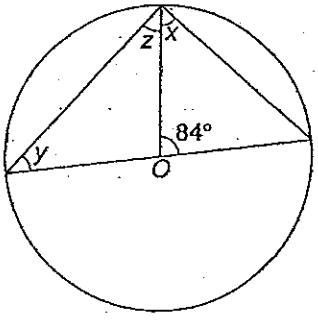
$x = 28^0, y = 28^0, z = 34^0$

(d)



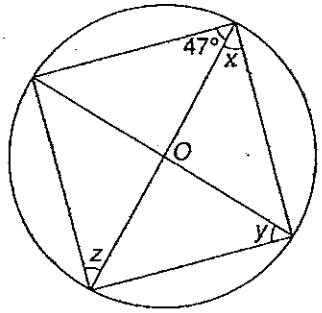
$x = 30^0, y = 120^0$

(e)



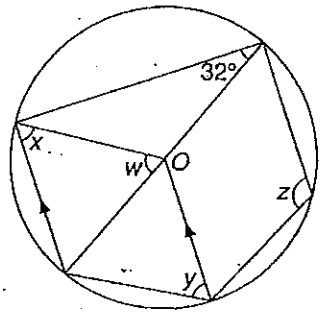
$x = 47^0, y = 43^0, z = 43^0$

(f)



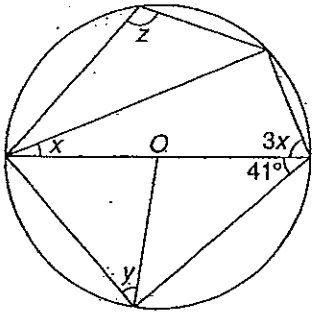
$x = 43^0, y = 47^0, z = 43^0$

(g)



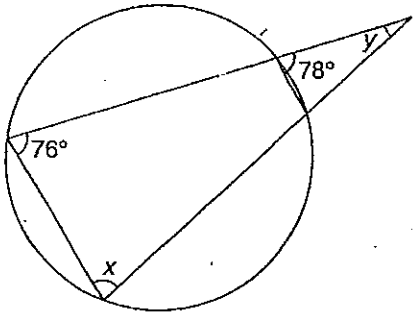
$w = 64^0, x = 58^0, y = 61^0, z = 119^0$

(h)



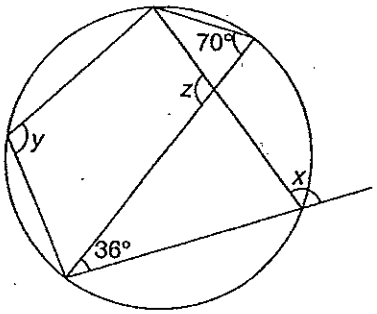
$\boxed{x = 22.5^0, y = 49^0, z = 112.5^0}$

(i)



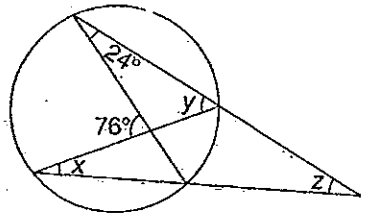
$\boxed{x = 78^0, y = 26^0}$

(j)



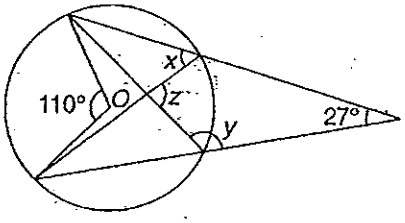
$\boxed{x = 110^0, y = 110^0, z = 106^0}$

(k)



$\boxed{x = 24^0, y = 52^0, z = 28^0}$

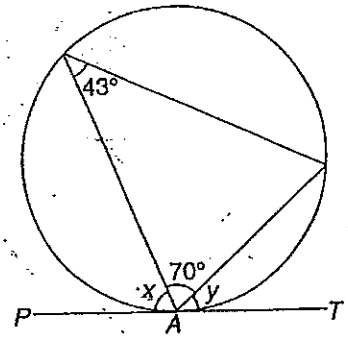
(l)



$x = 55^0, y = 125^0, z = 83^0$

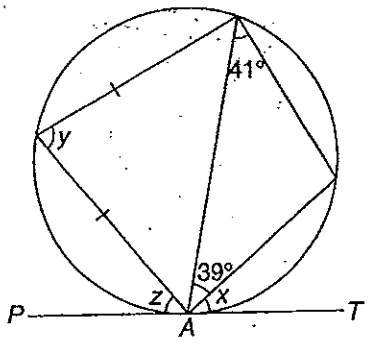
(3) Find the value of the pronumerals in each of the following diagrams. *TAP* is the tangent to the circle at *A* and *TBQ* is the tangent to the circle at *B*. *O* is the centre of the circle.

(a)



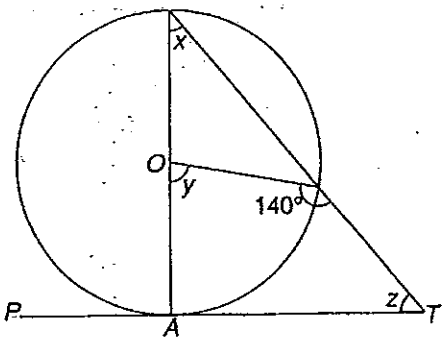
$x = 67^0, y = 43^0$

(b)



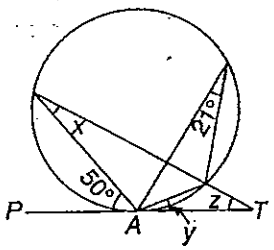
$x = 41^0, y = 80^0, z = 50^0$

(c)



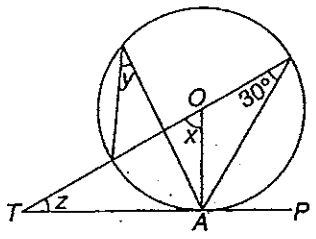
$\boxed{x = 40^0, y = 80^0, z = 50^0}$

(d)



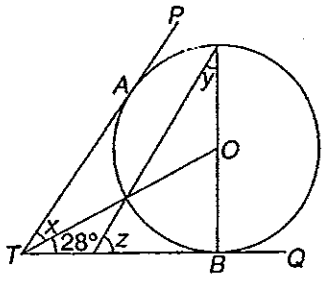
$\boxed{x = 21^0, y = 21^0, z = 29^0}$

(e)



$\boxed{x = 60^0, y = 30^0, z = 30^0}$

(f)



$\boxed{x = 28^0, y = 31^0, z = 59^0}$