NAME :

Centre of Excellence in Mathematics
S201 / 414 GARDENERS RD. ROSEBERY 2018
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YEAR 12 – EXT.1 MATHS

REVIEW TOPIC : CIRCLE GEOMETRY – SP1

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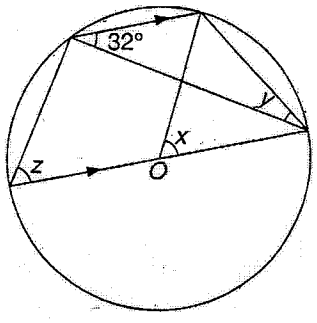
EXERCISES:

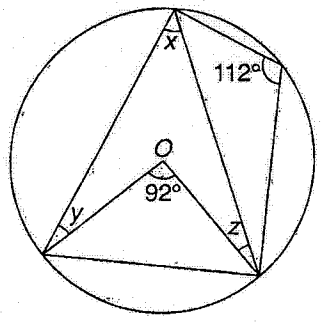
(1) Find the value of the pronumeral in each case. Give reasons for your answer.

(a)



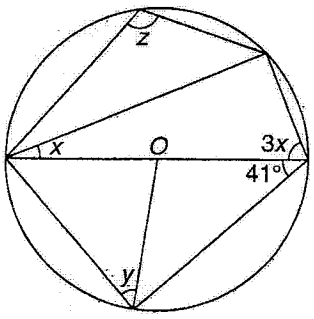
$\boxed{x = 64^0, y = 26^0, z = 58^0}$

(b)



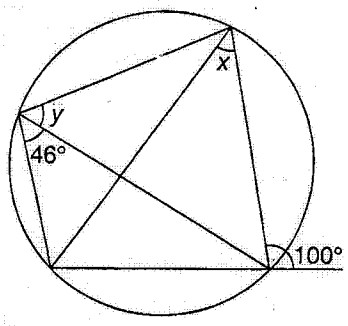
$\boxed{x = 46^0, y = 24^0, z = 22^0}$

(c)



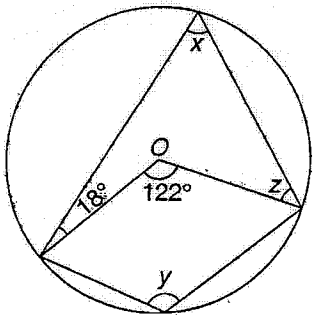
$\boxed{x = 22.5^0, y = 49^0, z = 112.5^0}$

(d)



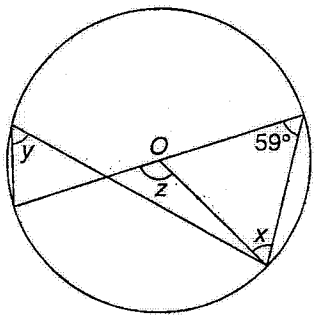
$\boxed{x = 46^0, y = 54^0}$

(e)



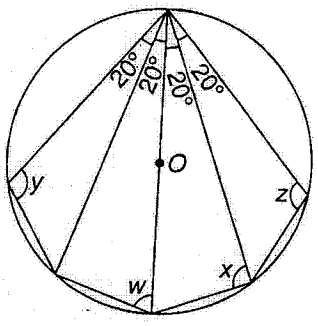
$\boxed{x = 61^0, y = 119^0, z = 43^0}$

(f)



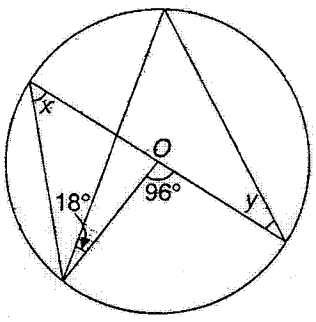
$\boxed{x = 59^0, y = 59^0, z = 118^0}$

(g)



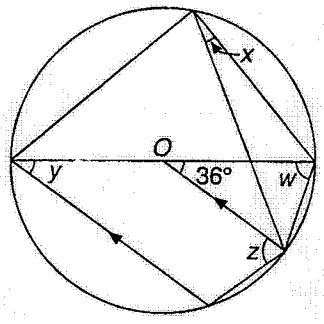
$\boxed{w = 70^0, x = 90^0, y = 110^0, z = 110^0}$

(h)



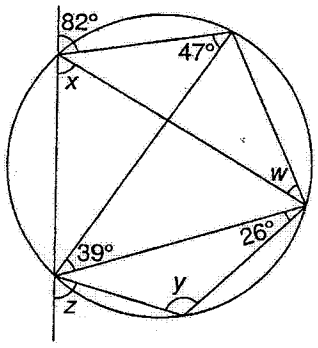
$\boxed{x = 48^0, y = 30^0}$

(i)



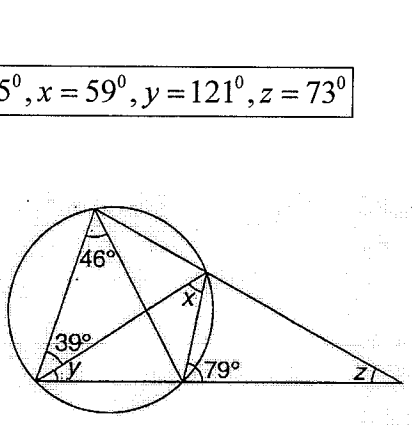
$\boxed{w = 72^0, x = 18^0, y = 36^0, z = 72^0}$

(j)



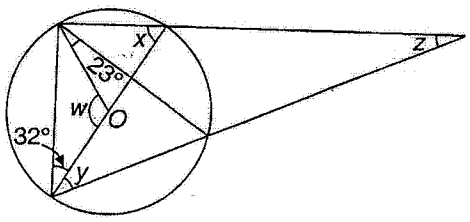
$w = 35^0, x = 59^0, y = 121^0, z = 73^0$

(k)



$x = 46^0, y = 33^0, z = 29^0$

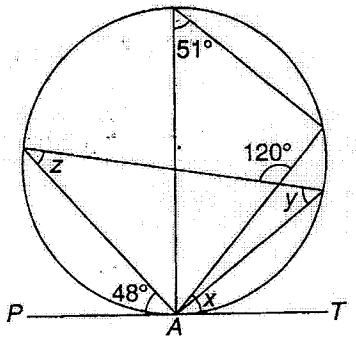
(l)



$w = 116^0, x = 58^0, y = 35^0, z = 23^0$

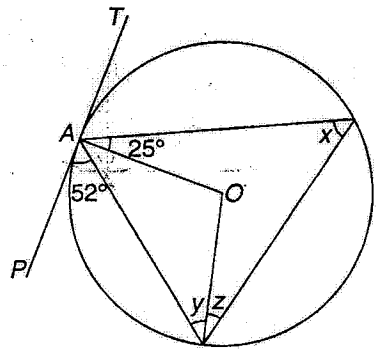
(2) Find the value of the pronumerals in each of the following diagrams. TAP is the tangent to the circle at A and TBQ is the tangent to the circle at B. O is the centre of the circle.

(a)



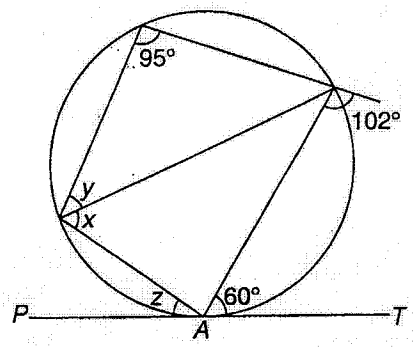
$x = 51^0, y = 48^0, z = 39^0$

(b)



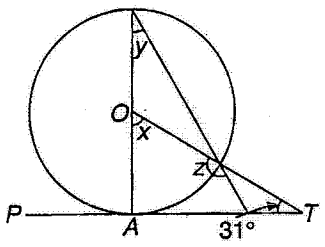
$\boxed{x = 52^0, y = 38^0, z = 27^0}$

(c)



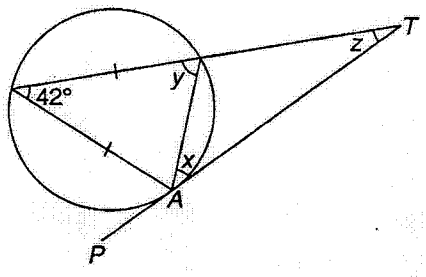
$\boxed{x = 60^0, y = 42^0, z = 35^0}$

(d)



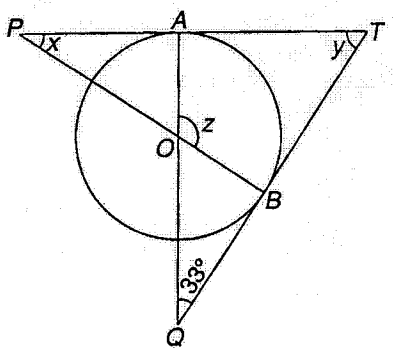
$x = 59^0, y = 29.5^0, z = 150.5^0$

(e)



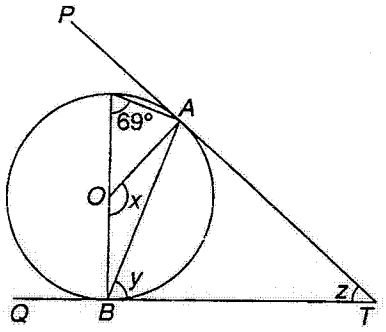
$x = 42^0, y = 69^0, z = 27^0$

(f)



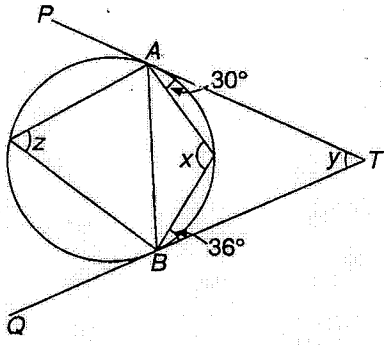
$x = 33^0, y = 57^0, z = 123^0$

(g)



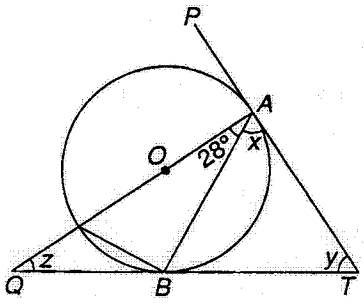
$\boxed{x = 138^0, y = 69^0, z = 42^0}$

(h)



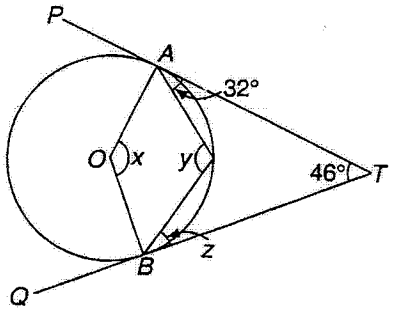
$\boxed{x = 114^0, y = 48^0, z = 66^0}$

(i)



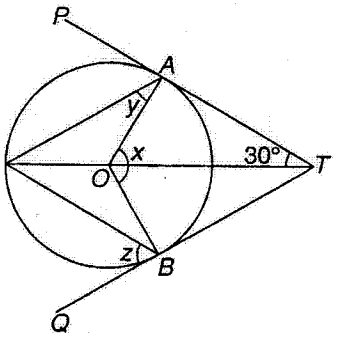
$\boxed{x = 62^0, y = 56^0, z = 34^0}$

(j)



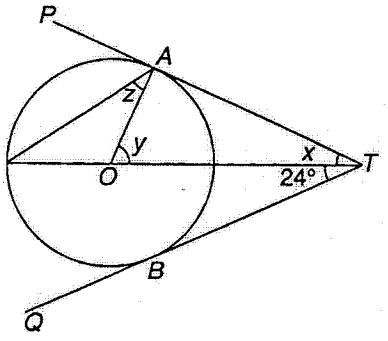
$\boxed{x = 134^0, y = 113^0, z = 35^0}$

(k)



$\boxed{x = 120^0, y = 30^0, z = 60^0}$

(l)



$\boxed{x = 24^0, y = 66^0, z = 33^0}$