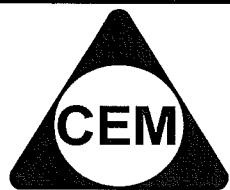


NAME:



Centre of Excellence in Mathematics
S201 / 414 GARDENERS RD. ROSEBERY 2018
www.cemtuition.com.au

MOBILE 0412880475



PHONE 096666311

YEAR 12 – EXT.1 MATHS

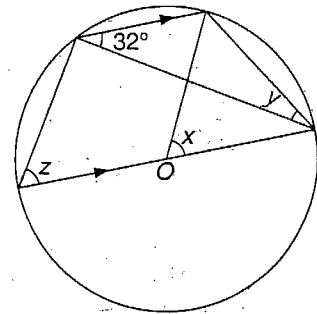
REVIEW TOPIC (SP1)

CIRCLE GEOMETRY

EXERCISES:

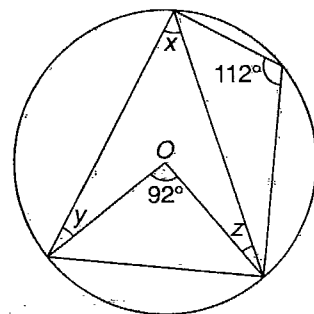
(1) Find the value of the pronumeral in each case. Give reasons for your answer.

(a)



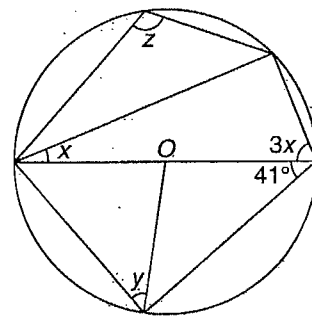
$$x = 64^{\circ}, y = 26^{\circ}, z = 58^{\circ}$$

(b)



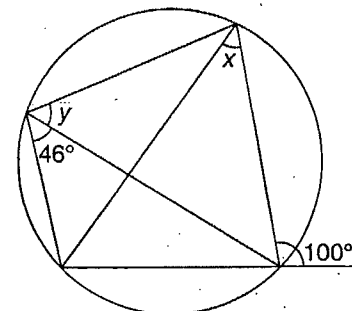
$$x = 46^{\circ}, y = 24^{\circ}, z = 22^{\circ}$$

(c)



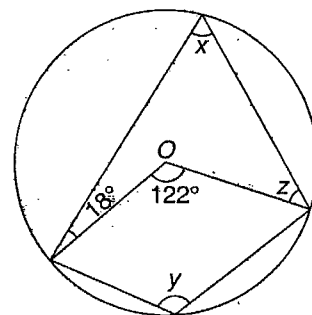
$$x = 22.5^{\circ}, y = 49^{\circ}, z = 112.5^{\circ}$$

(d)



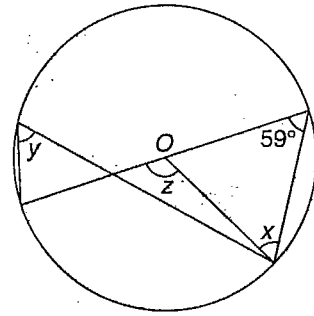
$$x = 46^{\circ}, y = 54^{\circ}$$

(e)



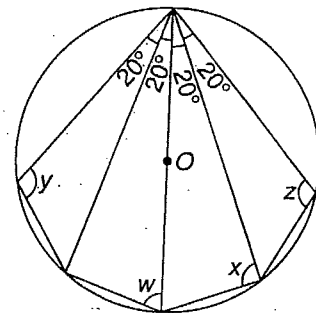
$$x = 61^{\circ}, y = 119^{\circ}, z = 43^{\circ}$$

(f)



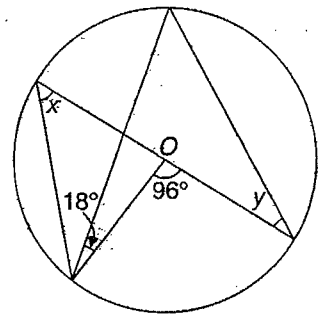
$$x = 59^{\circ}, y = 59^{\circ}, z = 118^{\circ}$$

(g)



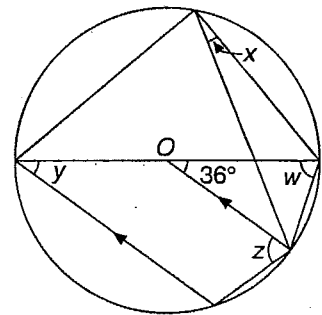
$$w = 70^{\circ}, x = 90^{\circ}, y = 110^{\circ}, z = 110^{\circ}$$

(h)



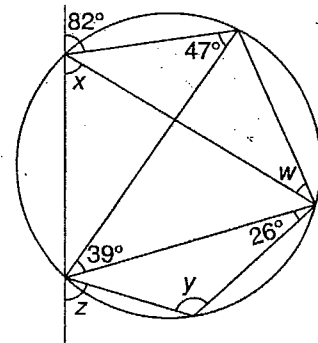
$$x = 48^\circ, y = 30^\circ$$

(i)



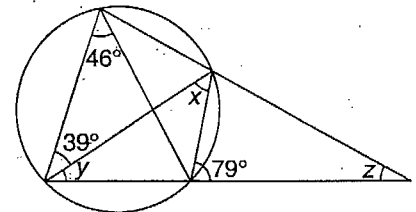
$$w = 72^\circ, x = 18^\circ, y = 36^\circ, z = 72^\circ$$

(j)



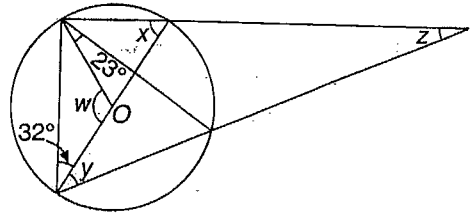
$$w = 35^{\circ}, x = 59^{\circ}, y = 121^{\circ}, z = 73^{\circ}$$

(k)



$$x = 46^{\circ}, y = 33^{\circ}, z = 29^{\circ}$$

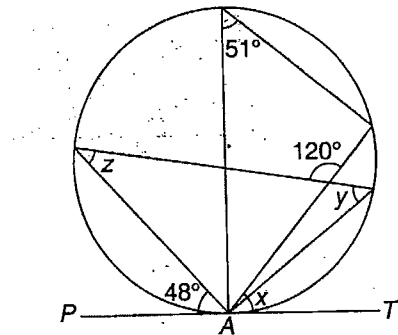
(1)



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

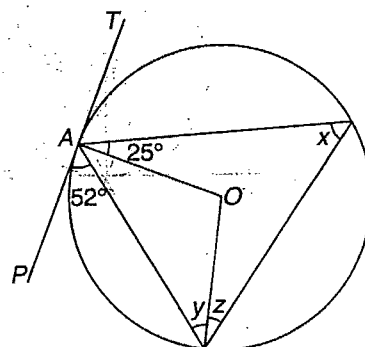
(2) Find the value of the pronumerals in each of the following diagrams. TAP is the tangent to the circle at A and TBQ is the tangent to the circle at B . O is the centre of the circle.

(a)



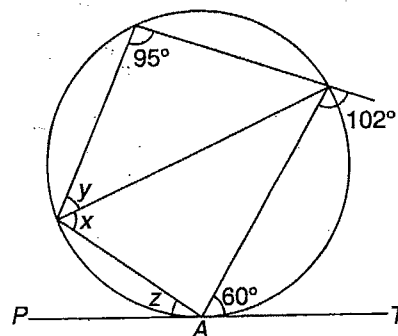
$$x = 51^\circ, y = 48^\circ, z = 39^\circ$$

(b)



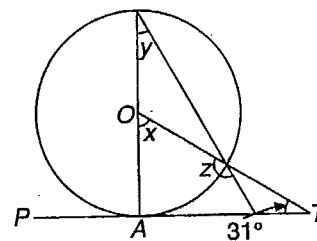
$$x = 52^{\circ}, y = 38^{\circ}, z = 27^{\circ}$$

(c)



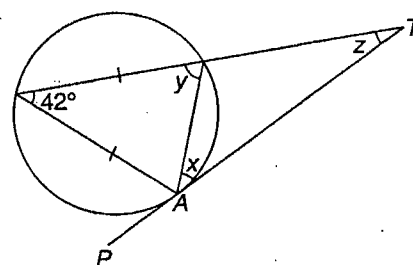
$$x = 60^{\circ}, y = 42^{\circ}, z = 35^{\circ}$$

(d)



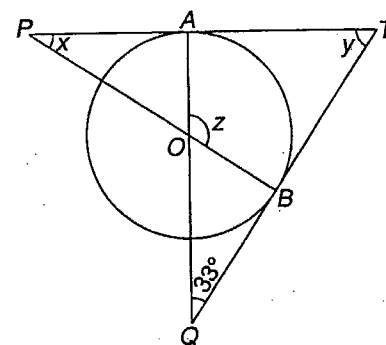
$$x = 59^{\circ}, y = 29.5^{\circ}, z = 150.5^{\circ}$$

(e)



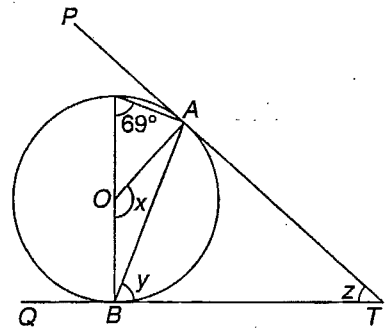
$$x = 42^{\circ}, y = 69^{\circ}, z = 27^{\circ}$$

(f)



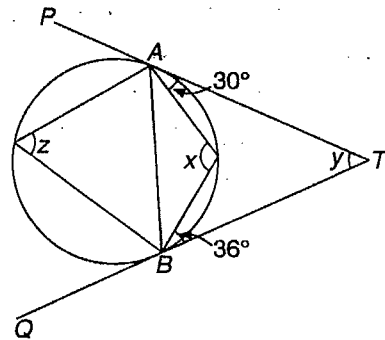
$$x = 33^{\circ}, y = 57^{\circ}, z = 123^{\circ}$$

(g)



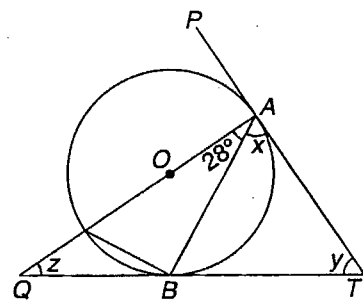
$$x = 138^{\circ}, y = 69^{\circ}, z = 42^{\circ}$$

(h)



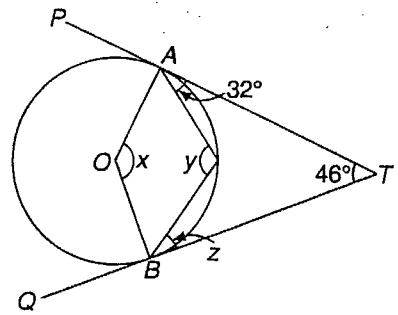
$$x = 114^{\circ}, y = 48^{\circ}, z = 66^{\circ}$$

(i)



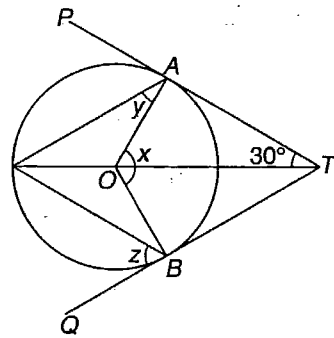
$$x = 62^{\circ}, y = 56^{\circ}, z = 34^{\circ}$$

(j)



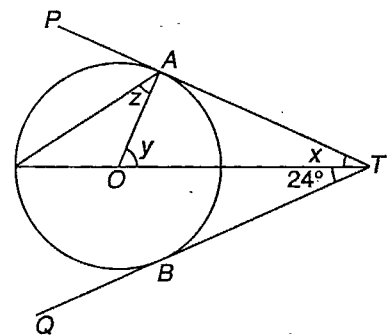
$$x = 134^{\circ}, y = 113^{\circ}, z = 35^{\circ}$$

(k)



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

(l)



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