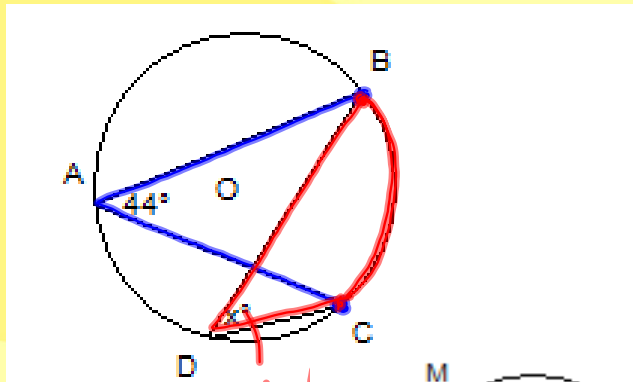
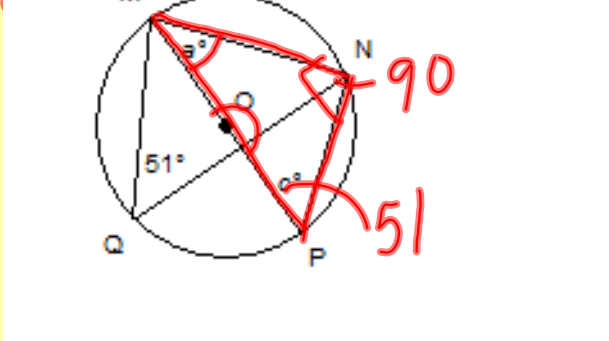
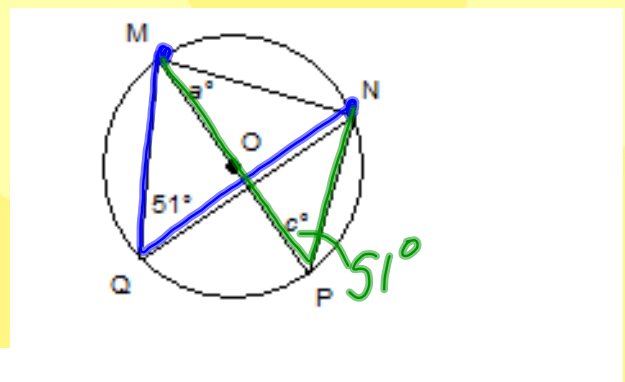


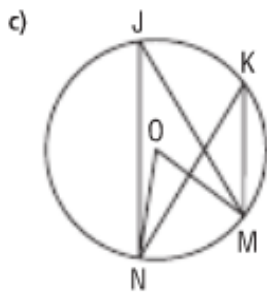
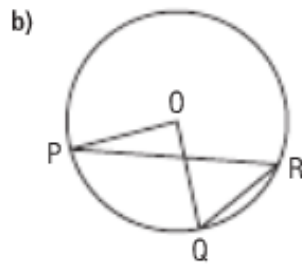
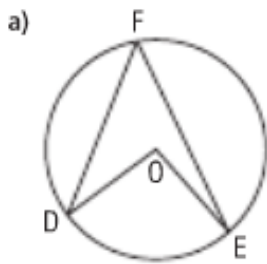
Warm-Up



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3. In each circle, identify an inscribed angle and the central angle subtended by the same arc.



Inscribed
 $\angle DFE$

Central
 $\angle DOE$

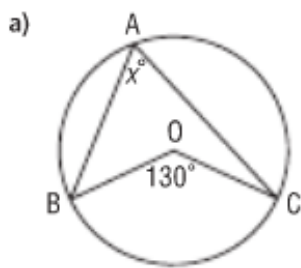
$\angle PRQ$

$\angle POQ$

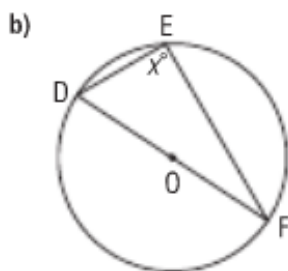
$\angle NJM, \angle NKM$

$\angle NOM$

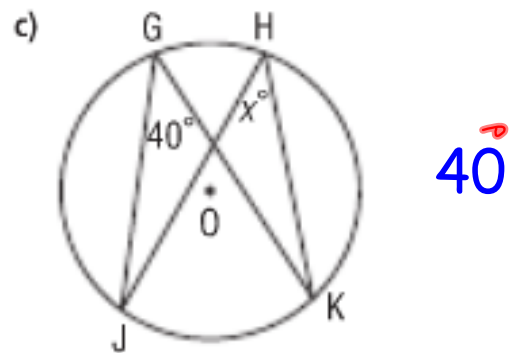
4. Point O is the centre of each circle.
Determine each value of x° .



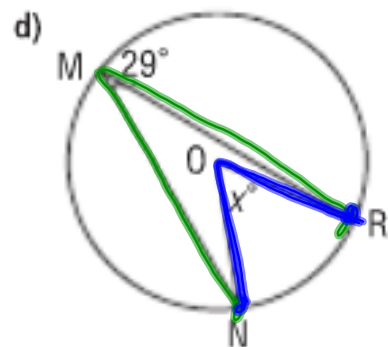
65°



90°

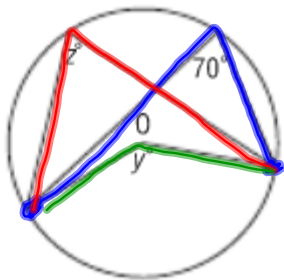


40°



58°

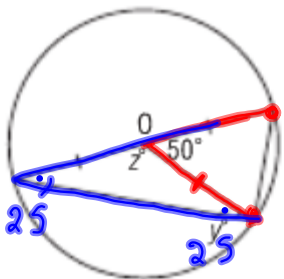
a)



$$Y = 140$$

$$Z = 70$$

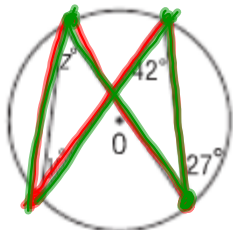
b)



$$Y = 25$$

$$Z = 130$$

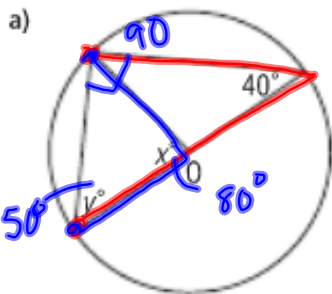
c)



$$Y = 27$$

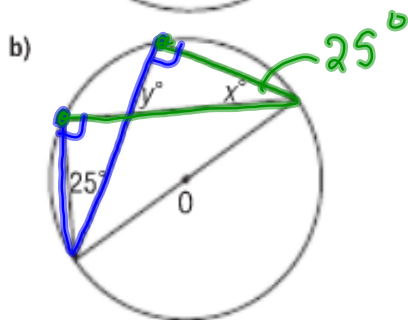
$$Z = 42$$

6. Point O is the centre of each circle. Label each vertex. Determine each value of x° and y° . Which circle properties did you use?



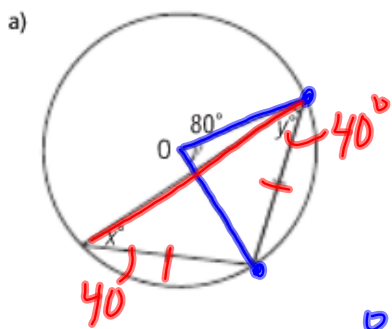
$$X=80$$

$$Y=50$$



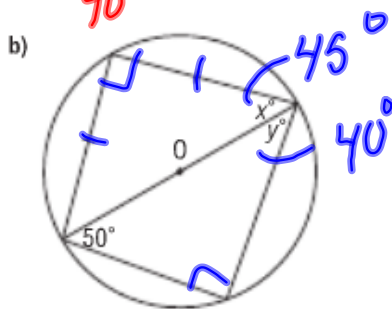
$$X= 25$$

$$Y=65$$



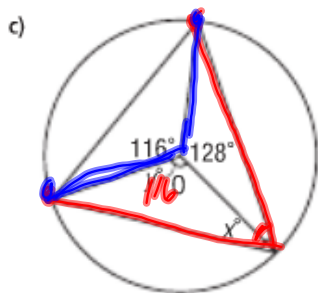
$X=40$

$Y=40$



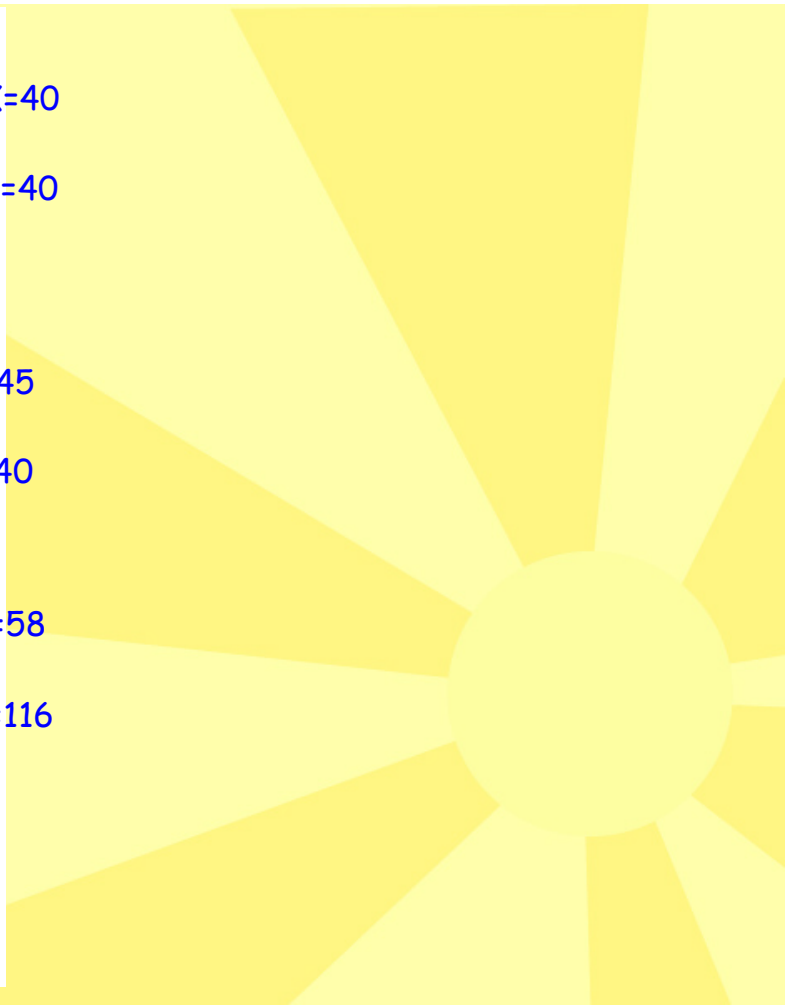
$X=45$

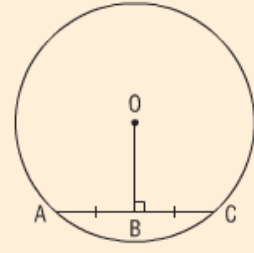
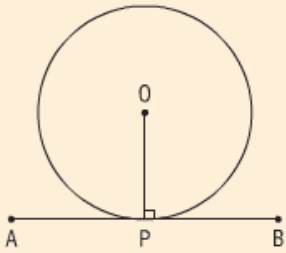
$Y=40$



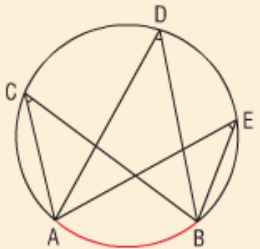
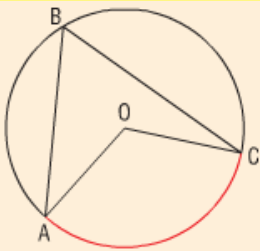
$X=58$

$Y=116$

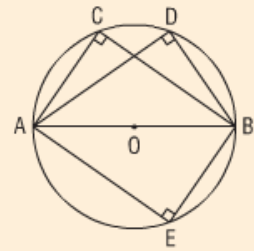




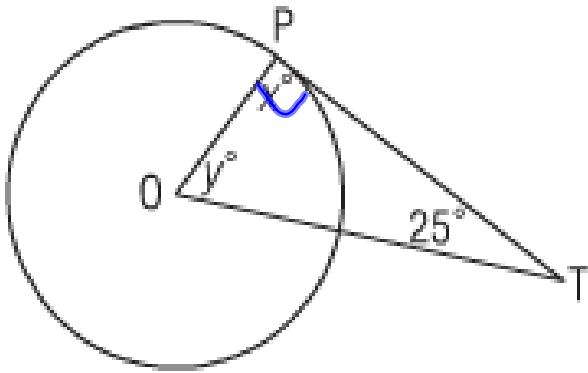
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- All inscribed angles subtended by a semicircle are right angles.
 $\angle ACB = \angle ADB = \angle AEB = 90^\circ$



a)

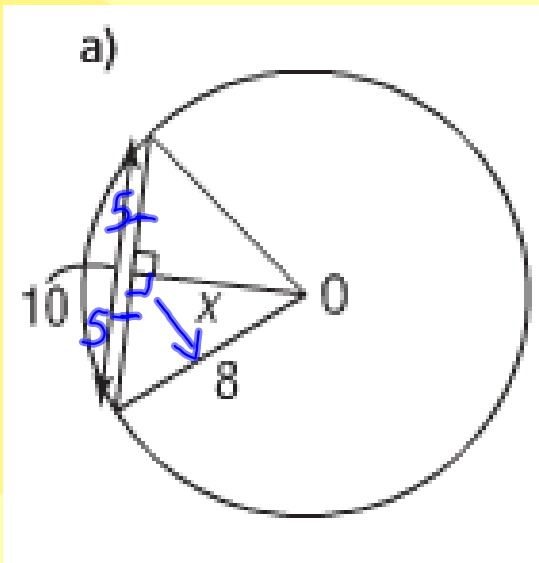


Given 25

$$x^\circ = 90^\circ$$

$$y^\circ = 65^\circ$$

$$180$$



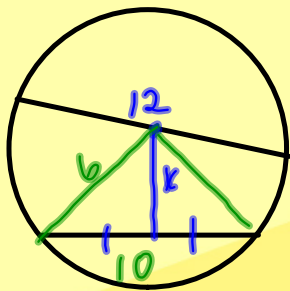
$$a^2 = c^2 - b^2$$

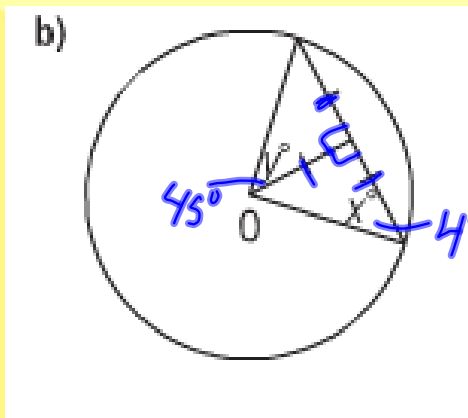
$$a^2 = 8^2 - 5^2$$

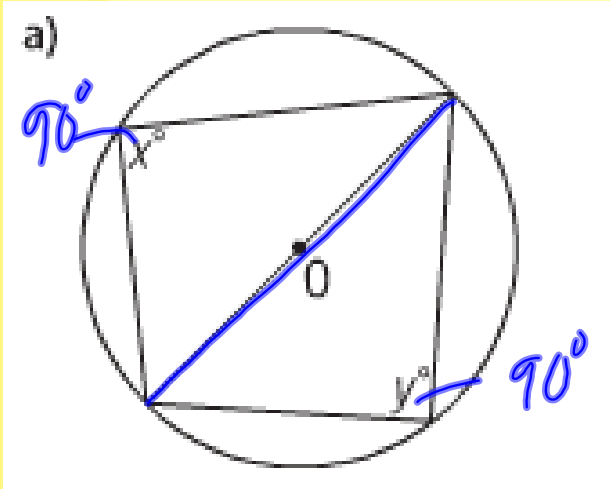
$$a^2 = 64 - 25$$

$$a^2 = 39$$

$$a = \sqrt{39}$$







Test on Thursday

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1 [b,c]

5 [b], 6, 7 [a], 8, 9 [b,c]

Page 420 1, 2 [x,y], 3

Sketch