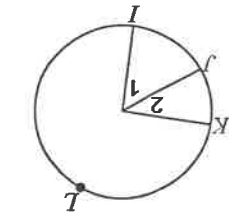
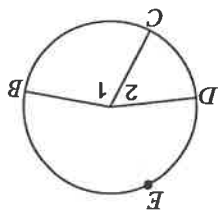


If an angle is given, name the arc it makes. If an arc is given, name its central angle.

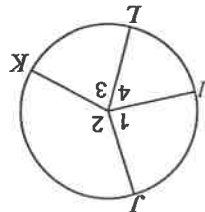
HW 30: Arcs, Central Angles, and Inscribed Angles



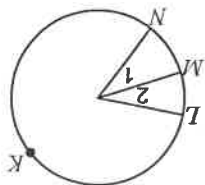
1) Major arc for  $\angle 2$



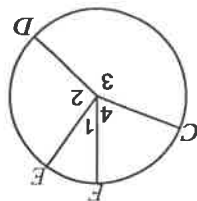
2) Major arc for  $\angle 2$



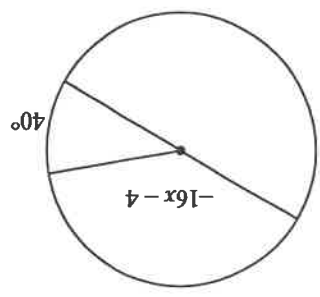
3)  $\angle 2$



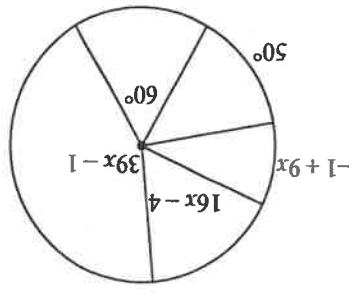
4) Major arc for  $\angle 2$



5)  $\angle DFC$

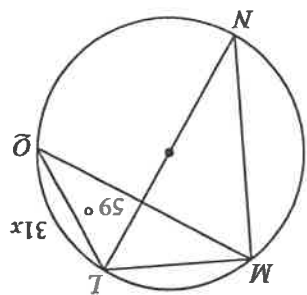


6)

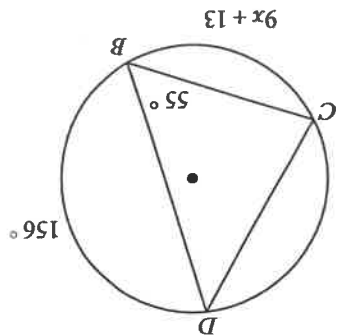


7)

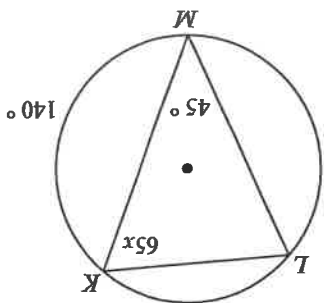
Solve for  $x$ . Assume that lines which appear to be diameters are actual diameters.



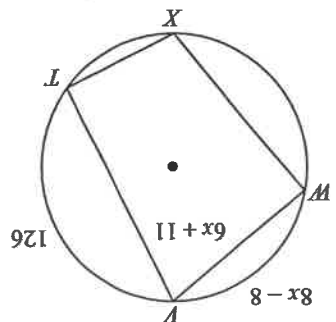
20)



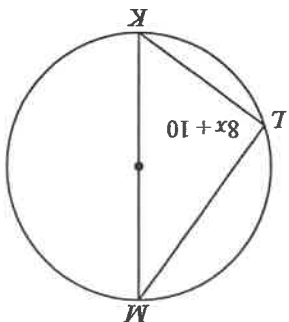
18)



19)

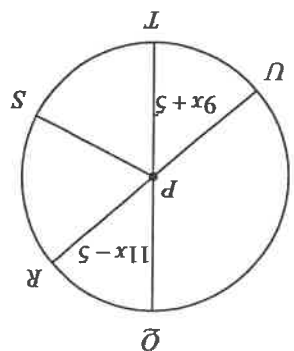


16)

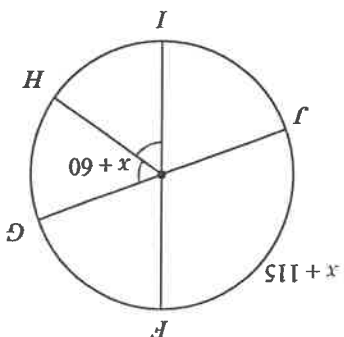


17)

Solve for x.

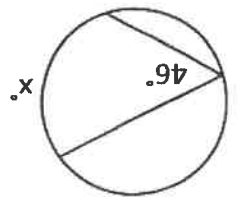


14)  $m\angle TPV$

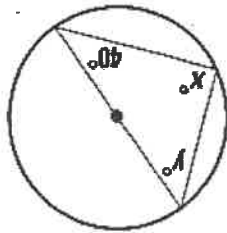


15)  $m\angle HI$

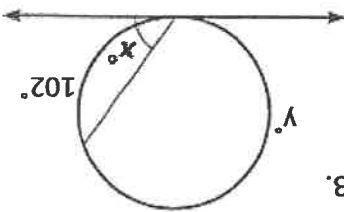
Find the value of each variable.



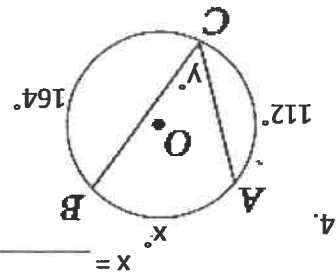
1.



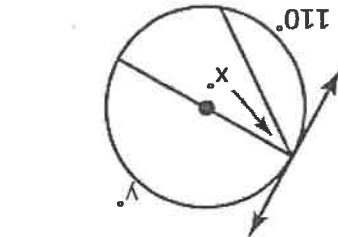
2.



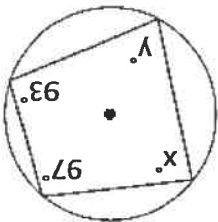
3.



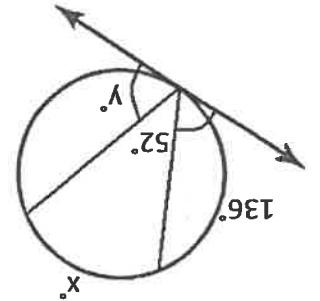
4.



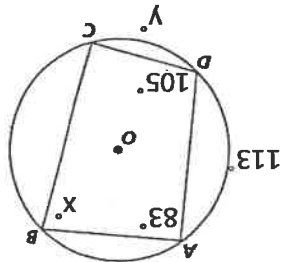
5.



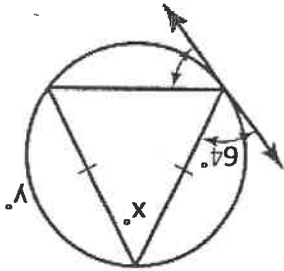
6.



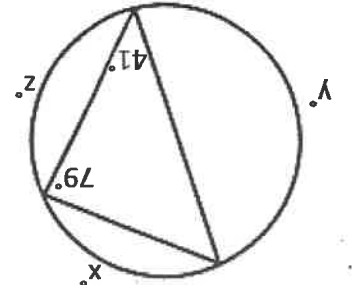
7.



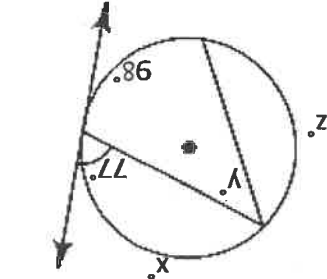
8.



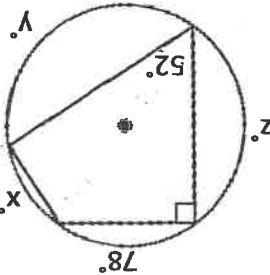
9.



10.



11.



12.

$$\text{Inscribed angle} = \frac{1}{2} \cdot \text{intercepted arc}$$

SHOW WORK

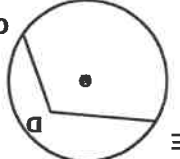
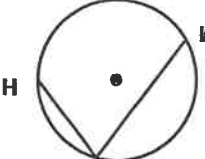
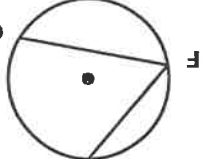
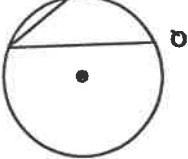
Name \_\_\_\_\_

x = \_\_\_\_\_ y = \_\_\_\_\_ z = \_\_\_\_\_  
x = \_\_\_\_\_ y = \_\_\_\_\_ z = \_\_\_\_\_  
x = \_\_\_\_\_ y = \_\_\_\_\_ z = \_\_\_\_\_

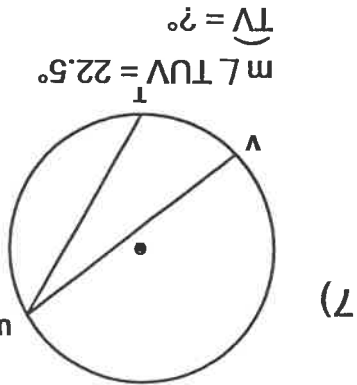
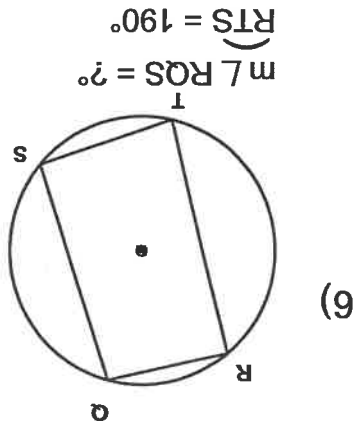
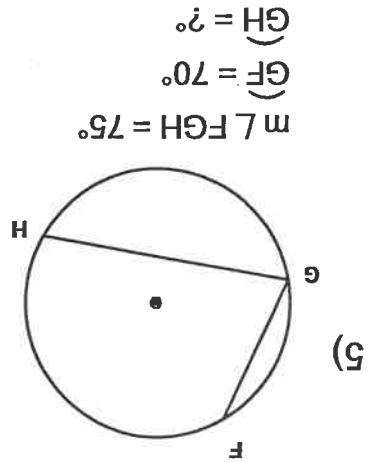


### Inscribed Angles

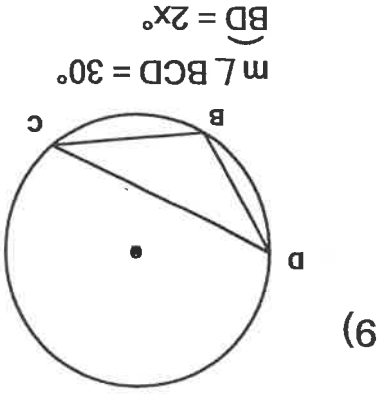
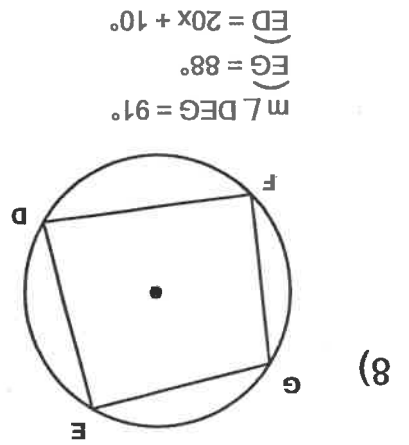
Decide if each angle is an inscribed angle. If it is, name the angle and intercepted arc.

- 1)  1)
- 2)  2)
- 3)  3)
- 4)  4)

Find the measure of the indicated angle or arc.



Solve for x.



Name : \_\_\_\_\_  
 Teacher : \_\_\_\_\_  
 Score : \_\_\_\_\_  
 Date : \_\_\_\_\_