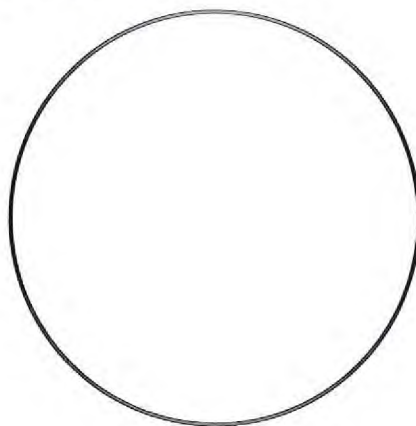


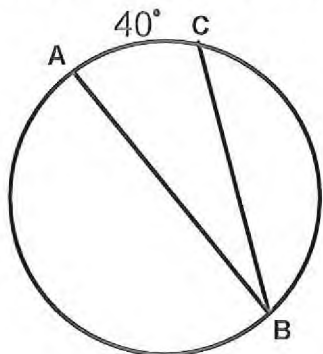
Inscribed Angles Conjecture

The measure of an inscribed angle is one half the measure of its intercepted arc.

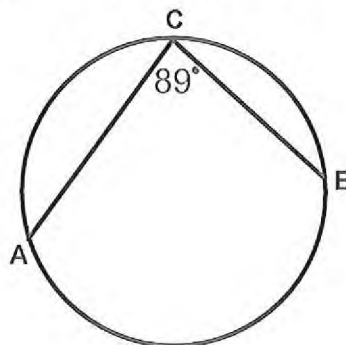


Examples:

Find $m\angle ABC$.

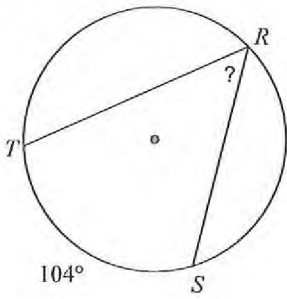


Find $m\widehat{AB}$.

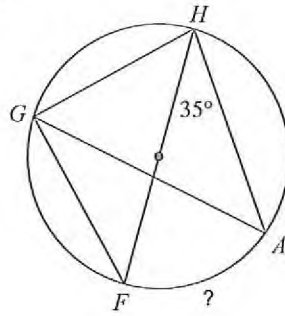


Find the measure of the arc or angle indicated.

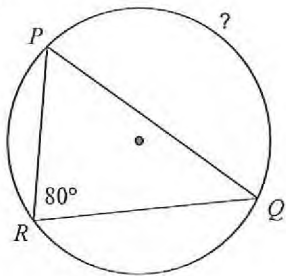
1)



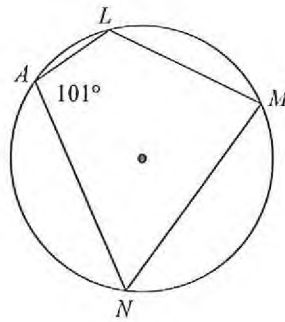
2)



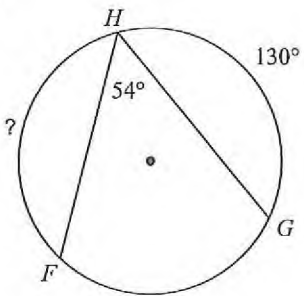
3)



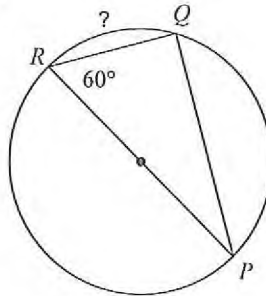
4) Find $m\widehat{LMN}$



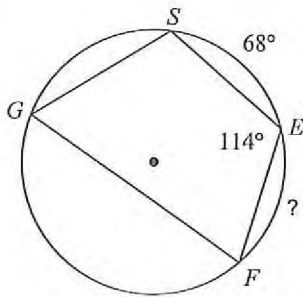
5)



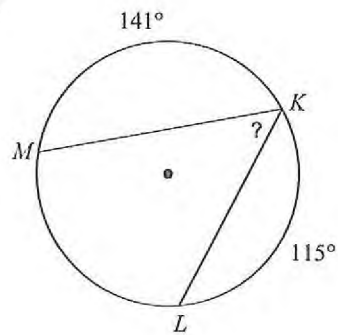
6)



7)

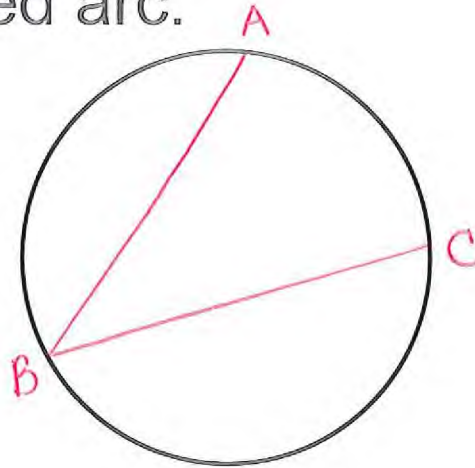


8)



Inscribed Angles Conjecture

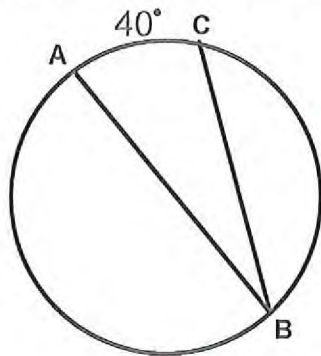
The measure of an inscribed angle is one half the measure of its intercepted arc.



$$m\angle ABC = \frac{1}{2} m\widehat{AC}$$
$$m\widehat{AC} = 2 \cdot m\angle ABC$$

Examples:

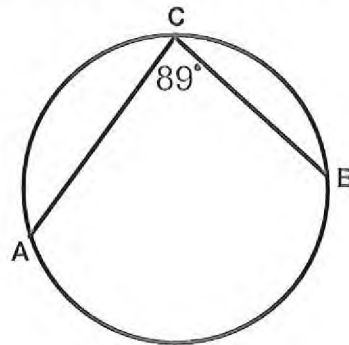
Find $m\angle ABC$.



$$40^\circ \div 2$$

$$20^\circ$$

Find $m\widehat{AB}$.

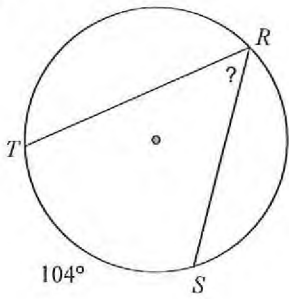


$$89^\circ \cdot 2$$

$$178^\circ$$

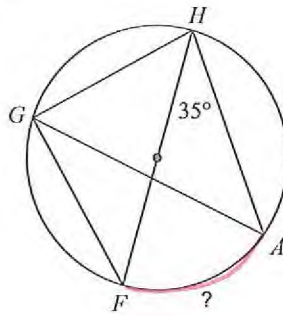
Find the measure of the arc or angle indicated.

1)



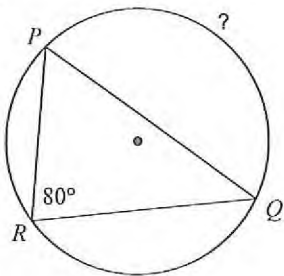
52°

2)



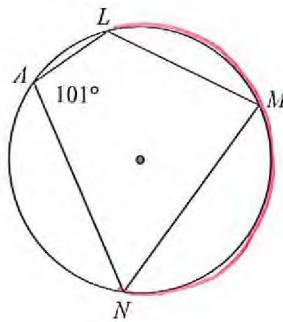
70°

3)



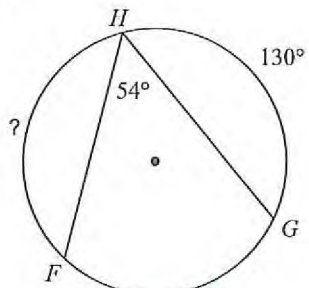
160°

4) Find $m\widehat{LMN}$



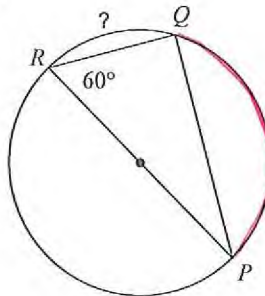
202°

5)



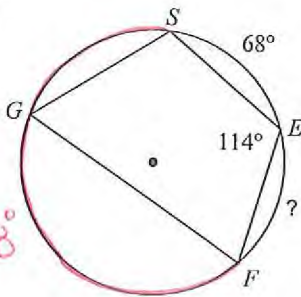
122°

6)



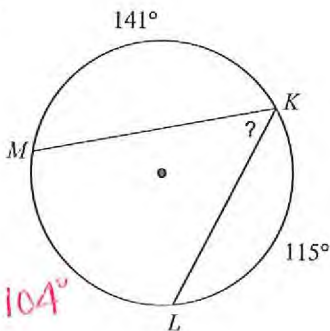
60°

7)



64°

8)



52°

228°

104°