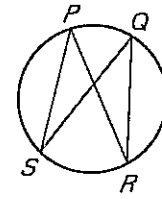


**LESSON 10.4 Practice B**  
For use with pages 671–679

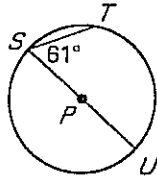
1. Multiple Choice In the figure shown, which statement is true?

- A.  $\angle SPR \cong \angle PSQ$       B.  $\angle RQS \cong \angle RPS$   
C.  $\angle RPS \cong \angle PRQ$       D.  $\angle PRQ \cong \angle SQR$

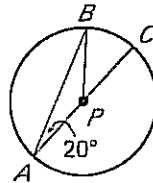


Find the measure of the indicated angle or arc in  $\odot P$ .

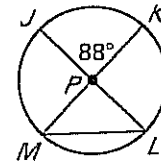
2.  $m\widehat{ST}$



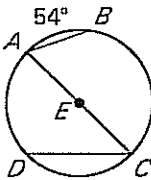
3.  $m\widehat{AB}$



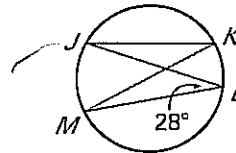
4.  $m\angle JLM$



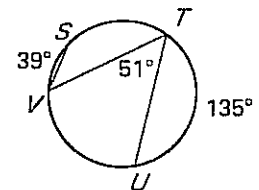
5.  $m\angle A$



6.  $m\angle K$

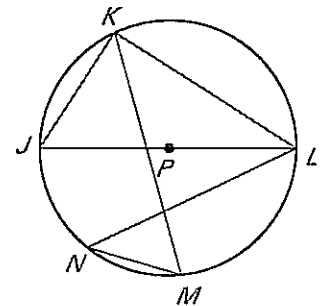


7.  $m\widehat{VST}$



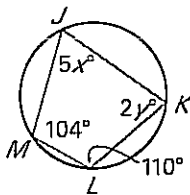
Find the measure of the indicated angle or arc in  $\odot P$ , given  $m\widehat{LM} = 84^\circ$  and  $m\widehat{KN} = 116^\circ$ .

8.  $m\angle JKL$       9.  $m\angle MKL$   
10.  $m\angle KMN$       11.  $m\angle JKM$   
12.  $m\angle KLN$       13.  $m\angle LNM$   
14.  $m\widehat{MJ}$       15.  $m\widehat{LKJ}$

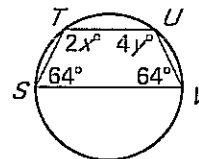


Find the values of the variables.

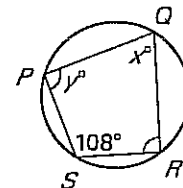
16.



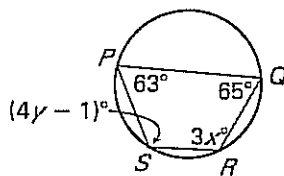
17.



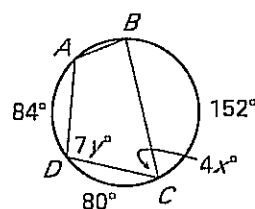
18.



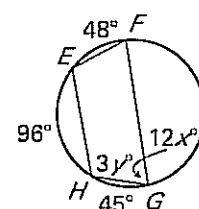
19.



20.

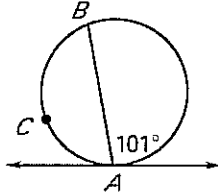


21.

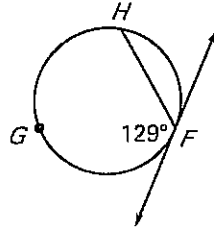


Find the indicated arc measure.

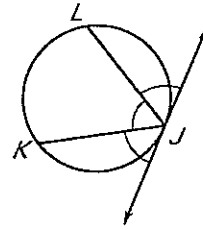
1.  $m\widehat{AB}$



2.  $m\widehat{FH}$

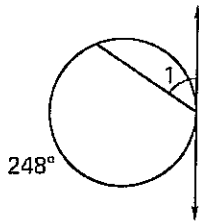


3.  $m\widehat{JKL}$

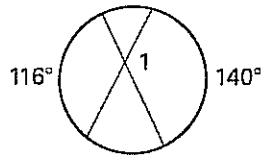


Find  $m\angle 1$ .

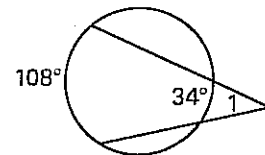
4.



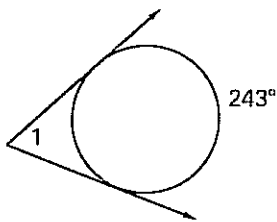
5.



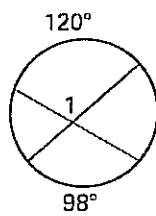
6.



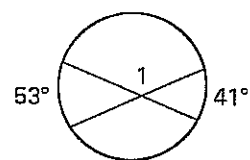
7.



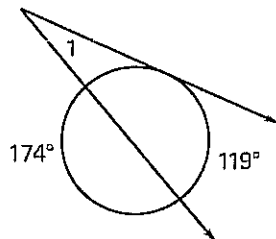
8.



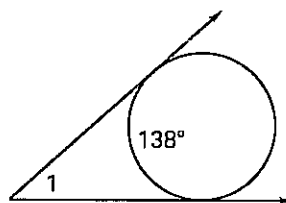
9.



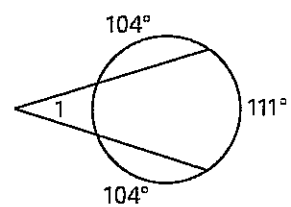
10.



11.

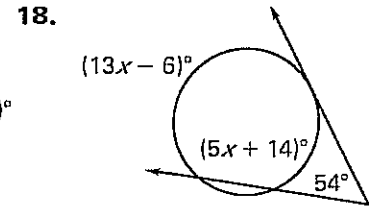
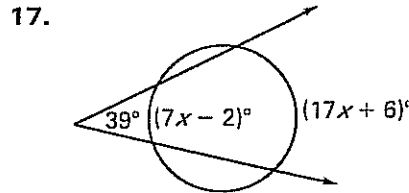
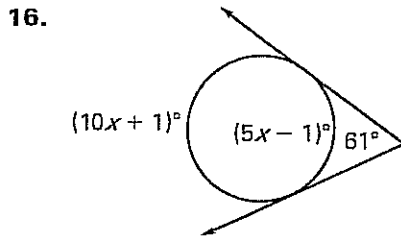
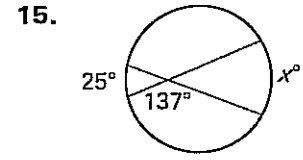
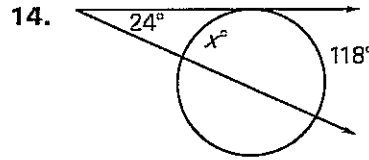
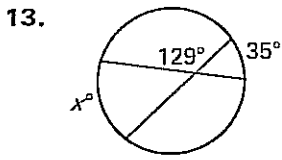


12.

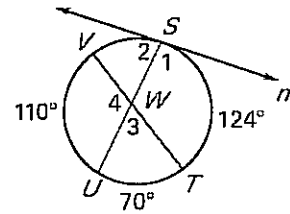


**LESSON 10.5 Practice** *continued*  
 For use with pages 680–686

In Exercises 13–18, find the value of  $x$ .



19. In the diagram shown,  $m$  is tangent to the circle at the point  $S$ . Find the measures of all the numbered angles.



Use the diagram shown to find the measure of the angle.

20.  $m\angle CAF$

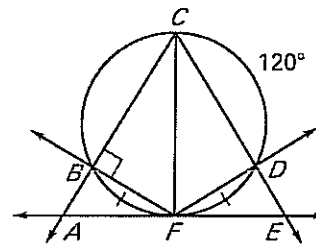
21.  $m\angle AFB$

22.  $m\angle CEF$

23.  $m\angle CFB$

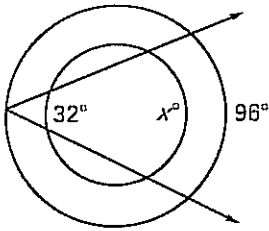
24.  $m\angle DCF$

25.  $m\angle BCD$

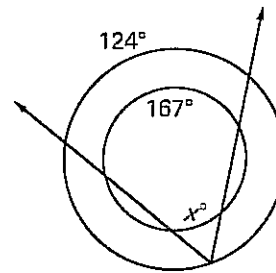


In Exercises 26 and 27, the circles are concentric. Find the value of  $x$ .

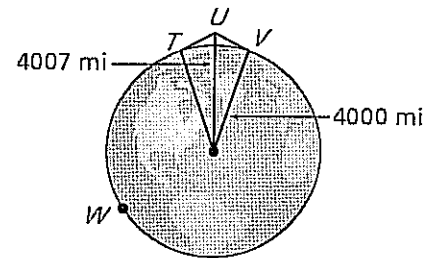
26



27.



28. **Transportation** A plane is flying at an altitude of about 7 miles above Earth. What is the measure of arc  $TU$  that represents the part of Earth you can see? The radius of Earth is about 4000 miles.



*Not drawn to scale*

29. **Mountain Climbing** A mountain climber is standing on top of a mountain that is about 4.75 miles above sea level. Use the information from Exercise 28 to find the measure of the arc that represents the part of Earth the mountain climber can see.