Name _____ Date _____

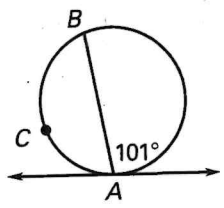
LESSON 10.5

Practice B

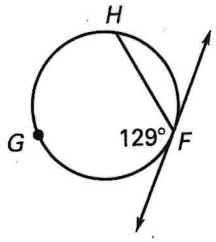
For use with pages 680–686

Find the indicated arc measure.

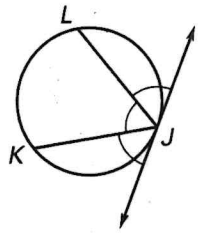
1. $m\overset{\frown}{AB}$



2. $m\overset{\frown}{FH}$

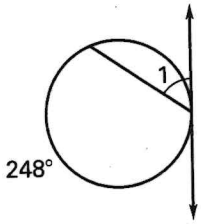


3. $m\overset{\frown}{JKL}$

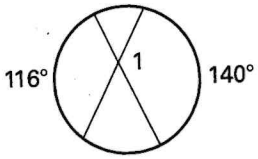


Find $m\angle 1$.

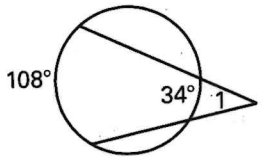
4.



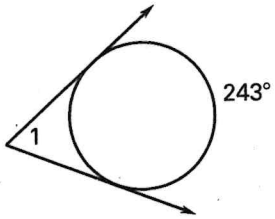
5.



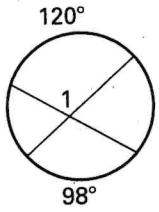
6.



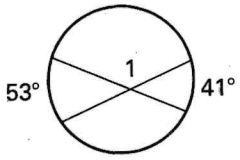
7.



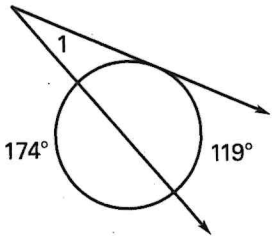
8.



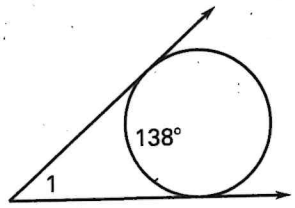
9.



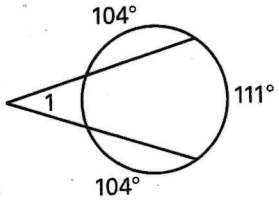
10.



11.

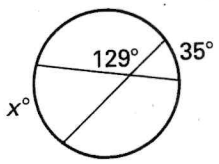


12.

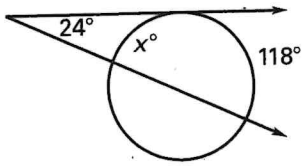


In Exercises 13–18, find the value of x.

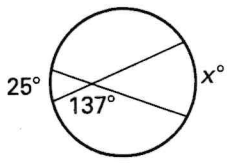
13.



14.



15.



LESSON 10.5

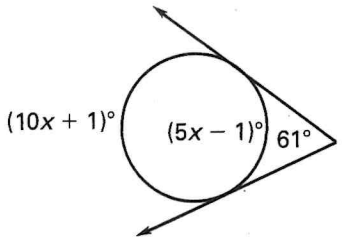
Name _____ Date _____

LESSON 10.5

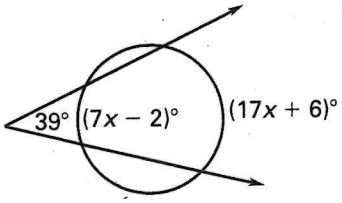
Practice B *continued*

For use with pages 680–686

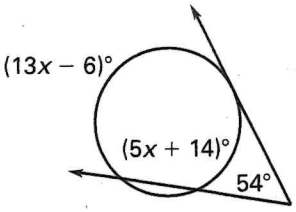
16.



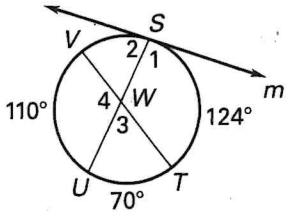
17.



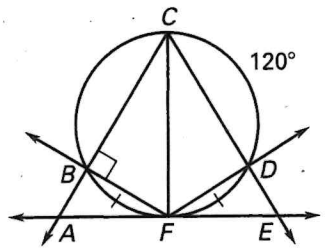
18.



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. $m\angle CEF$

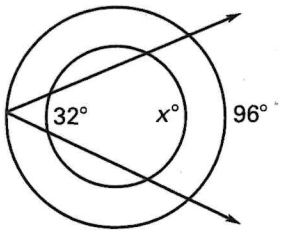
23. $m\angle CFB$

24. $m\angle DCF$

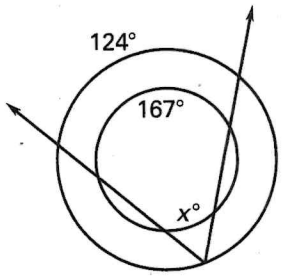
25. $m\angle BCD$

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

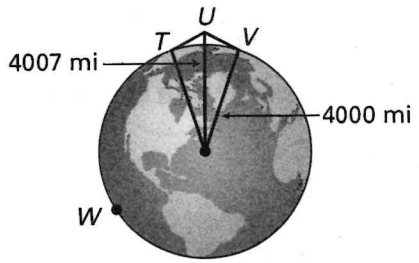
26



27.



28. Transportation A plane is flying at an altitude of about 7 miles above Earth. What is the measure of arc TV 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.