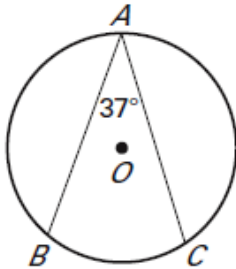
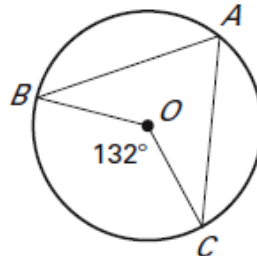


Find the indicated measure.

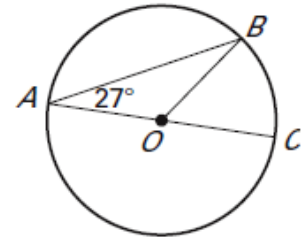
1. $m\widehat{BC}$



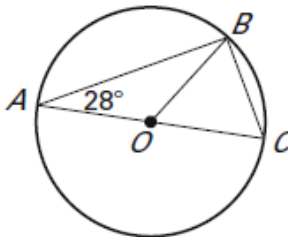
2. $m\angle A$



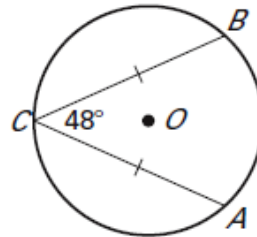
3. $m\widehat{AB}$



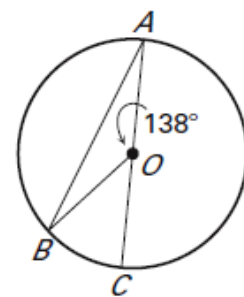
4. $m\angle C$



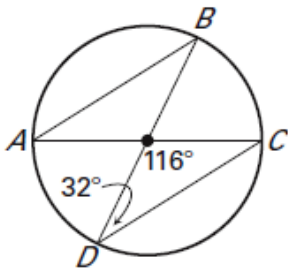
5. $m\widehat{AC}$



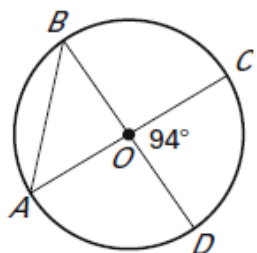
6. $m\widehat{BC}$



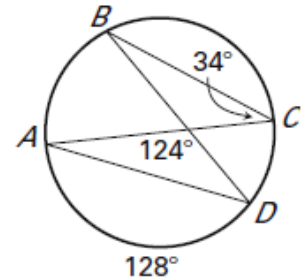
7. $m\angle B$



8. $m\angle A$



9. $m\widehat{BC}$



Find the indicated measure in $\odot O$, given $m\widehat{CD} = 85^\circ$ and $m\widehat{BE} = 97^\circ$.

10. $m\angle ABC$

11. $m\angle CED$

12. $m\angle BDE$

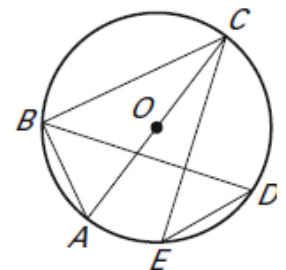
13. $m\angle CBD$

14. $m\angle ABD$

15. $m\angle BCE$

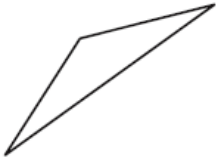
16. $m\widehat{AD}$

17. $m\widehat{ABC}$

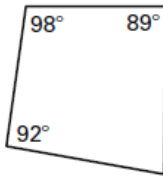


Determine whether a circle can be circumscribed about the figure.

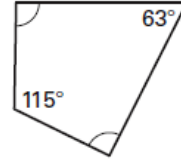
18.



19.

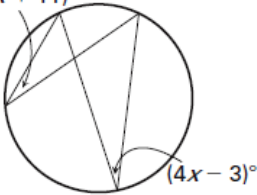


20.

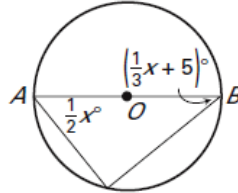


Find the value(s) of the variable(s).

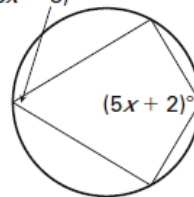
21. $(2x + 11)^\circ$



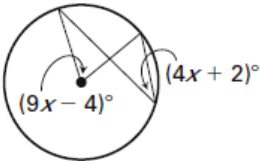
22.



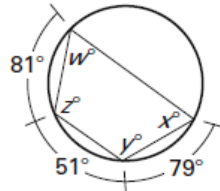
23. $(3x - 8)^\circ$



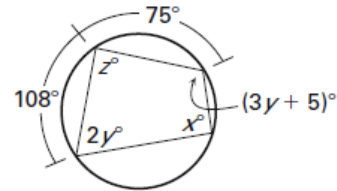
24.



25.

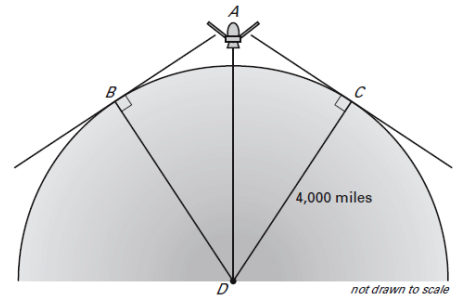


26.



27. The satellite at point A is a stationary satellite in the network of a satellite television company. It is hovering 400 miles above Earth. The radius of Earth is approximately 4000 miles.

- What is the length of \overline{AD} ?
- What is measure of $\angle ADC$?
- What is $m\widehat{BC}$?



Answer Key

1. 74° 2. 66° 3. 126° 4. 62° 5. 132° 6. 42°
 7. 32° 8. 43° 9. 120° 10. 90° 11. 42.5°
 12. 48.5° 13. 42.5° 14. 47.5° 15. 48.5°
 16. 95° 17. 180° 18. yes 19. no 20. no
 21. $x = 7$ 22. $x = 102$ 23. $x = 23.25$ 24. $x = 8$
 25. $w = 65, x = 66, y = 115, z = 114$
 26. $x = 91.5, y = 35, z = 88.5$
 27. a) 4400 miles b) 24.6° c) 49.2°