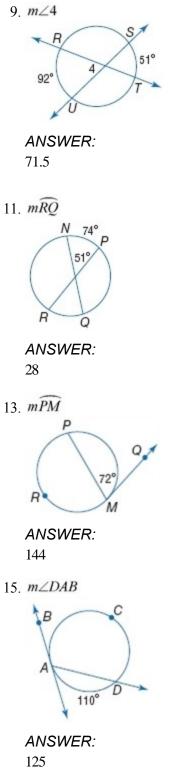
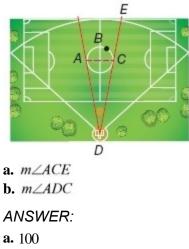
Find each measure. Assume that segments that appear to be tangent are tangent.



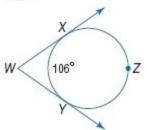
17. **SPORTS** The multi-sport field shown includes a softball field and a soccer field. If $\widehat{mABC} = 200$, find each measure.



b. 20

CCSS STRUCTURE Find each measure.

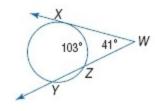
19. *m∠W*





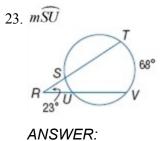
74

21. $m \widehat{XY}$



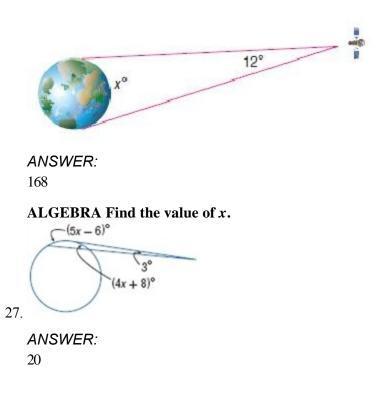
ANSWER: 185

<u>11-6 Secants, Tangents, and Angle Measures</u>



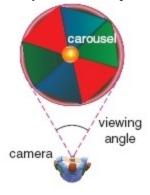
22

25. **SPACE** A satellite orbits above Earth's equator. Find *x*, the measure of the planet's arc, that is visible to the satellite.



<u>11-6 Secants, Tangents, and Angle Measures</u>

- 29. **PHOTOGRAPHY** A photographer frames a carousel in his camera shot as shown so that the lines of sight form tangents to the carousel.
 - a. If the camera's viewing angle is 35°, what is the arc measure of the carousel that appears in the shot?
 - **b.** If you want to capture an arc measure of 150° in the photograph, what viewing angle should be used?





a. 145

b. 30