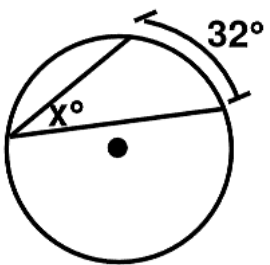
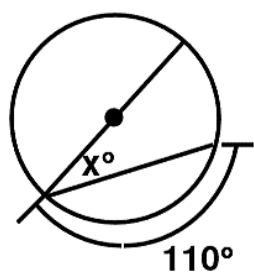


1. $m\widehat{MR}$
2. $m\widehat{RQ}$
3. $m\widehat{PQ}$
4. $m\widehat{NR}$
5. $m\widehat{NRM}$

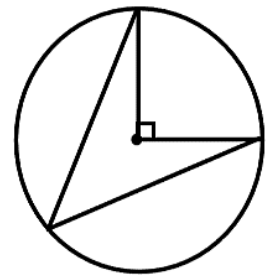
6. Find x .



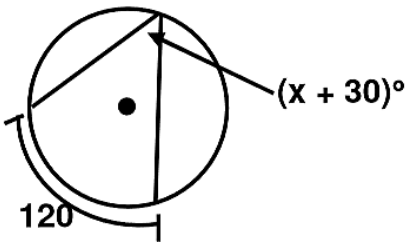
7. Find x .



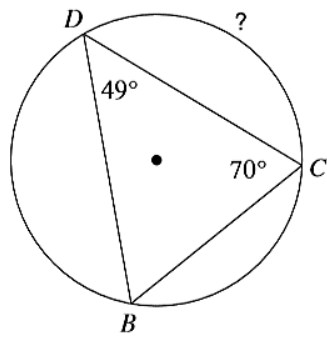
8. Find the inscribed angle.



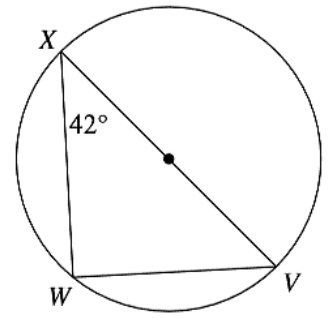
9. Solve for x .



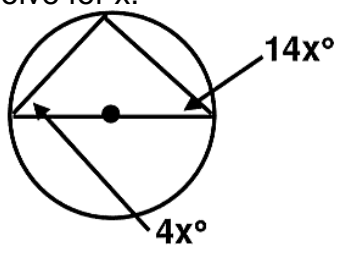
10. Find $m\widehat{DC}$.



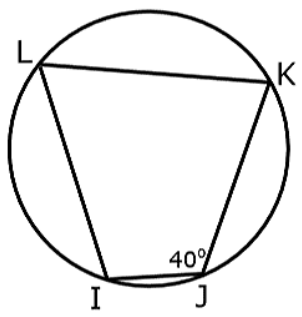
11. Find $m\angle W$ and $m\angle V$.



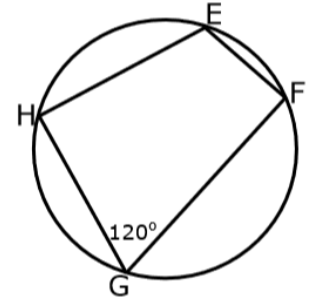
12. Solve for x .



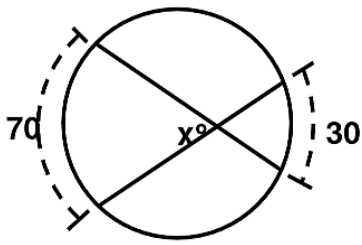
13. Find $m\angle L$



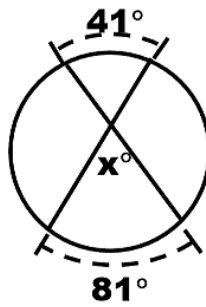
14. Find $m\angle E$



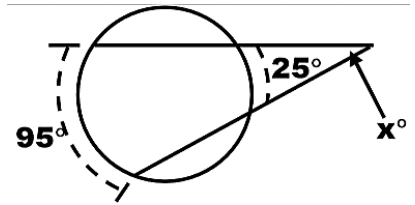
15. Solve for x .



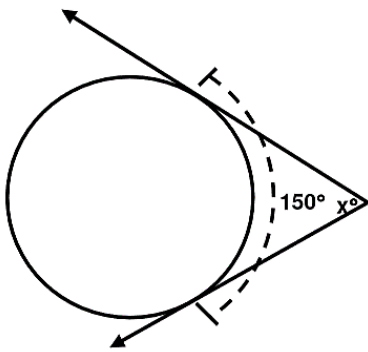
16. Solve for x .



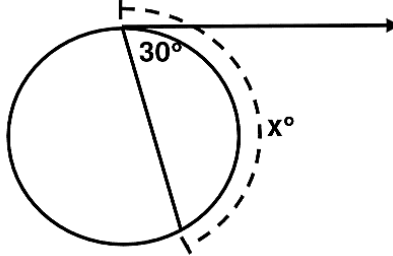
17. Solve for x .



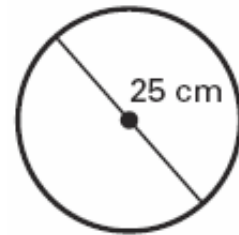
18. Solve for x .



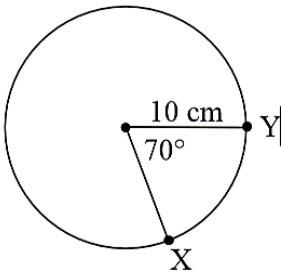
19. Find x .



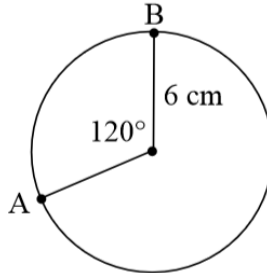
20. Find the circumference and area of the following circle.



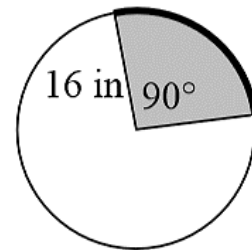
21. Find the arc length of \widehat{XY} .



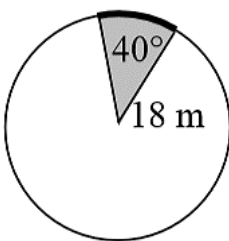
22. Find the arc length of \widehat{AB} .



23. Find the area of the sector.

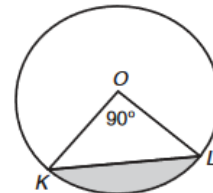


24. Find the area of the sector.

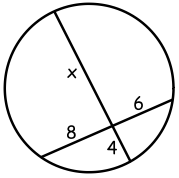


25. If a pizza has an area of 525 cm^2 and the pizza is cut into 8 equal slices, what is the area of one slice?

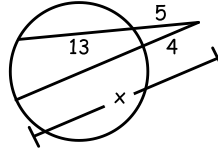
26. If the radius of the circle is 30 centimeters, what is the area of the shaded segment?



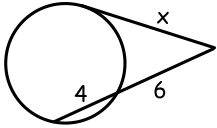
1. Find the value of x .



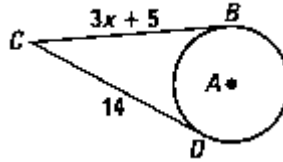
2. Find the value of x .



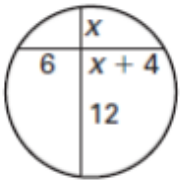
3. Find the value of x .



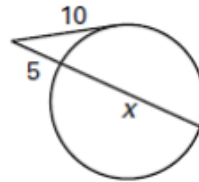
4. Find the value of x .



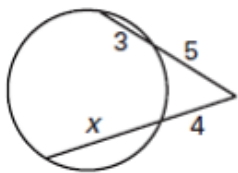
5. Find the value of x .



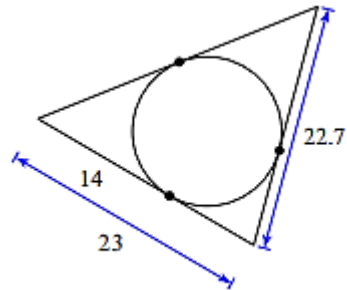
6. Find the value of x .



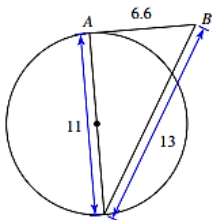
7. Find the value of x .



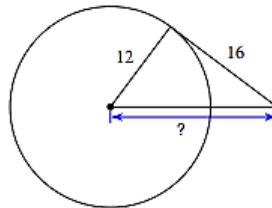
8. Find the perimeter of the triangle.



9. Determine if AB is tangent to the circle.



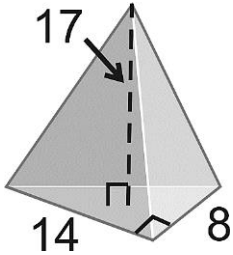
10. Find the missing length.



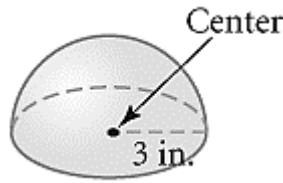
11. If the volume of a prism is 60 in^3 , what is the volume of a pyramid with the same base area and height?

12. If the volume of a cone is 23 in^3 , what is the volume of a cylinder with the same base area and height?

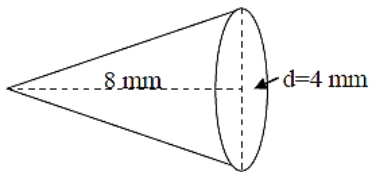
13. Find the volume of the figure.



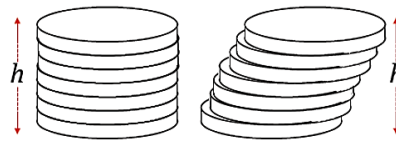
14. Find the volume of the hemisphere.



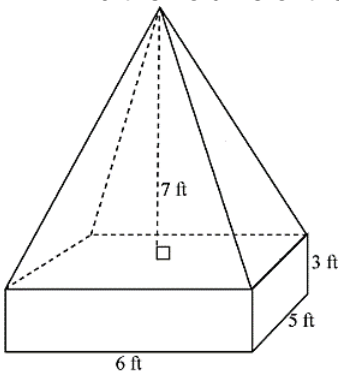
15. Find the volume of the cone.



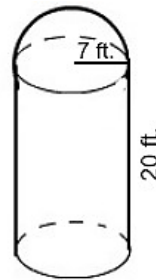
16. Are the two volumes different? Why?



17. Find the volume of the figure below.



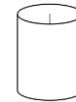
18. Find the volume of the silo.



19. What is the cross-section of a cone if you cut it perpendicular to the base?



20. What is the cross section of a cylinder if you cut it perpendicular to the base?



21. Below find listed the population of several states, as well as the land area. Compute the population density for each. What do you think the relationship is between land area and population density?

$$\text{population density} = \frac{\text{number of people}}{\text{area of land}}$$

State	Population (millions)	Land Area (thousands of square miles)
New Jersey	9.0	7.4
California	39	160
Louisiana	4.7	43
Texas	27	260
Colorado	5.5	100
Kansas	2.9	82
Alaska	0.74	570

21. The density of pine is generally about 0.5 g/cm^3 . What is the mass of a 800 cm^3 piece of pine?

22. There are 35,000 bats roosting in a pyramid-shaped vaulted cave ceiling that has a height of 30 meters and a rectangular floor that measures 75 by 100 meters. What is the average density of the bat population in the cave?