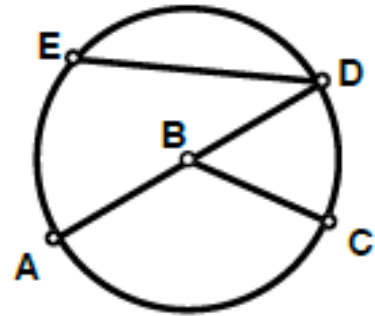


Geometry
Circles Test Review

Name _____ has known their best friend since:
Date _____ Block _____

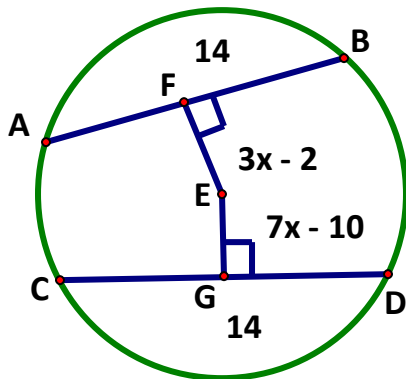
Word Bank:					
Central angle	Tangent	Semi -circle	Major arc	Minor arc	Secant
Point of tangency	Radius	Chord	Diameter	Inscribed angle	Degrees

1. In the diagram, point B is the center of the circle.



- \overline{ED} is called a _____.
- \overline{BC} is called a _____.
- \overline{DA} is called a _____.
- $\angle EDA$ is called an _____.
- A line that intersects a circle in two points is called a _____.
- A line that intersects a circle in exactly one point is called a _____. The point of intersection is called the _____.
- Arcs of circles are measured in _____.
- An arc that is less than 180 degrees is called a _____.
- An arc that contains 180 degrees is called a _____.
- An arc that is more than 180 degrees is called a _____.

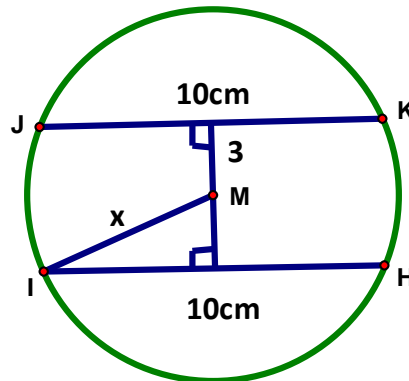
2. $AB = CD = 14$. Find the value of x and then FE .



$x =$ _____

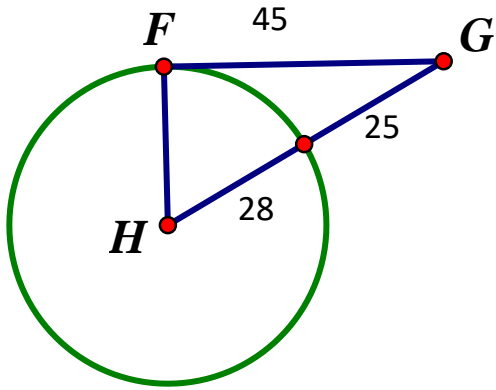
$FE =$ _____

3. Solve for the value of x .

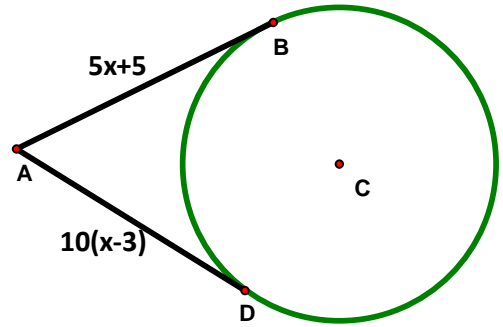


$x =$ _____

4. Is \overline{FG} tangent to $\odot H$? Show your work.

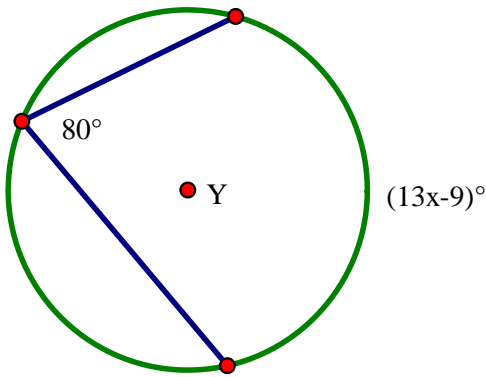


5. \overline{AB} and \overline{AD} are tangent to $\odot C$.
Solve for x .



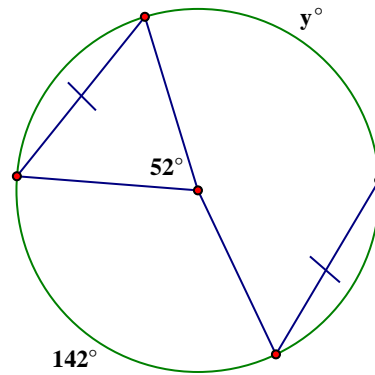
$x = \underline{\hspace{2cm}}$

6. Find the value of x in circle Y.



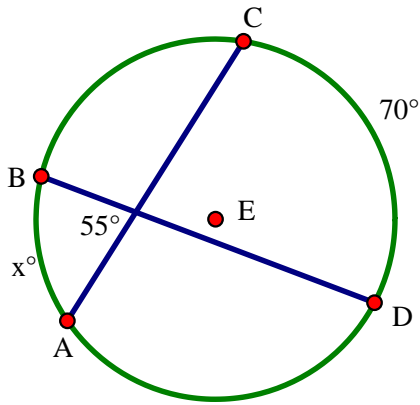
$x = \underline{\hspace{2cm}}$

7. Find the value of y .



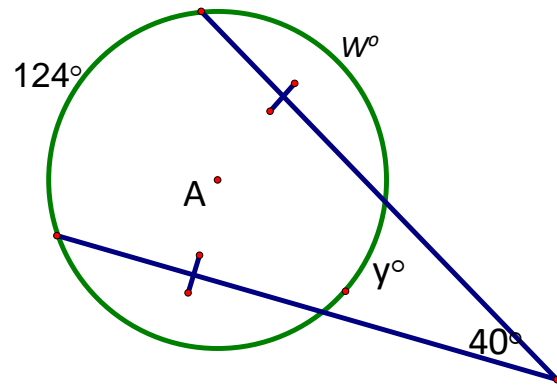
$y = \underline{\hspace{2cm}}$

8. Find the value of x .



$x =$ _____

9. Solve for y and w .

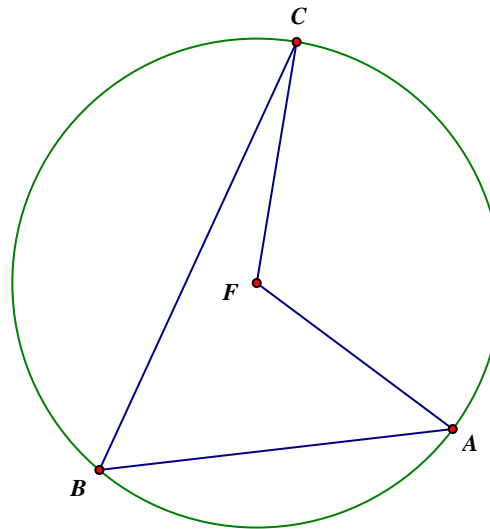


$y =$ _____

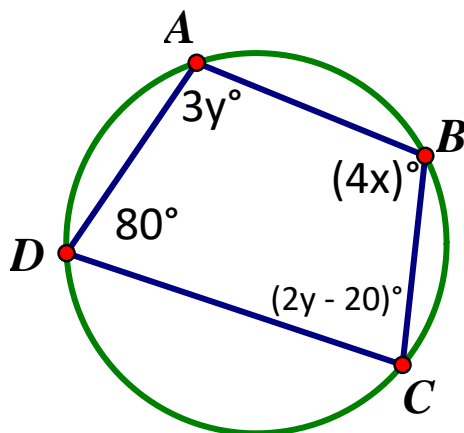
$w =$ _____

10. In the figure to the right,
find: $m\angle CBA$ and $m\angle CFA$

$$m\widehat{ABC} = 240^\circ$$



11. The quadrilateral ABCD is inscribed in the circle. Solve for the value of x and y , then find $m(\angle C)$.

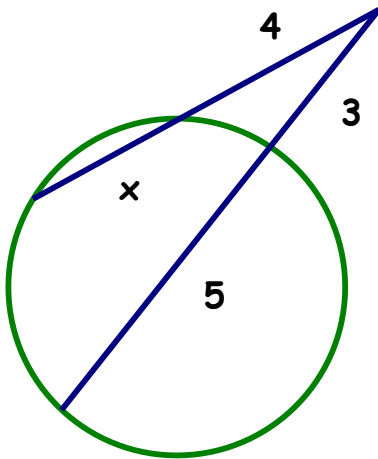


$x =$ _____

$y =$ _____

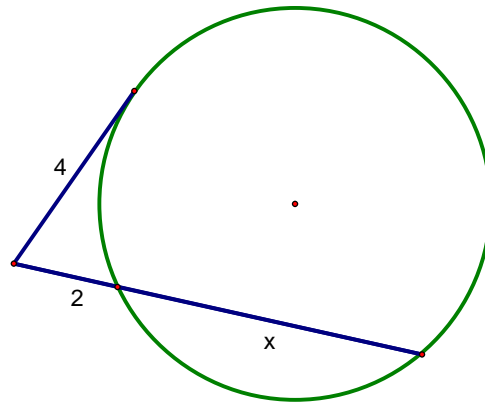
$m(\angle C) =$ _____

12. Find the value of x .



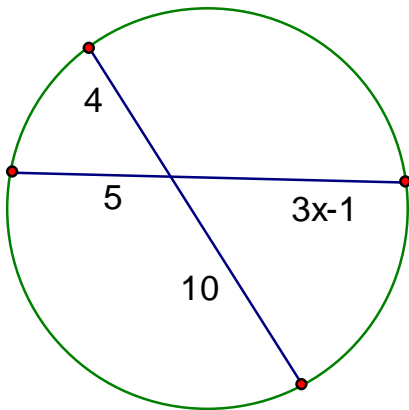
$x = \underline{\hspace{2cm}}$

13. Find the value of x .



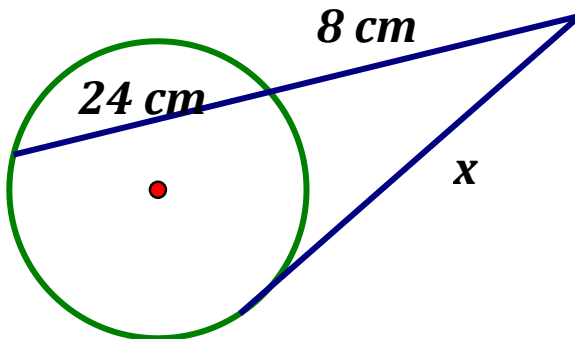
$x = \underline{\hspace{2cm}}$

14. Find the value of x .



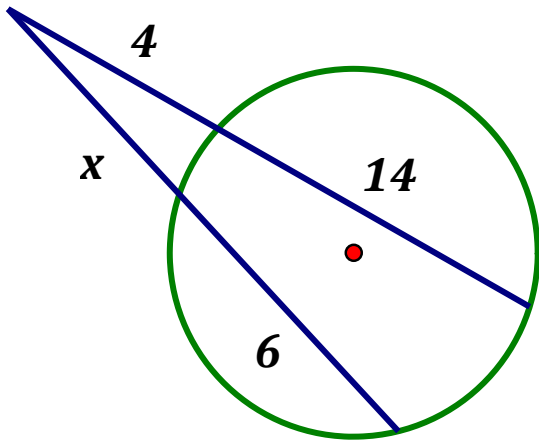
$x = \underline{\hspace{2cm}}$

15.



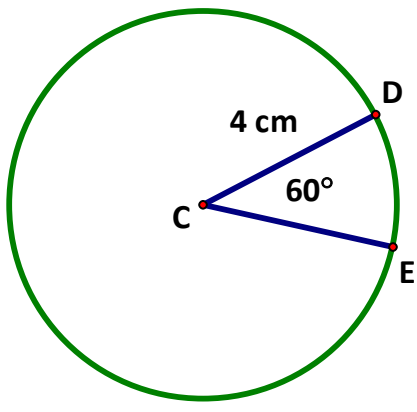
$x = \underline{\hspace{2cm}}$

16.



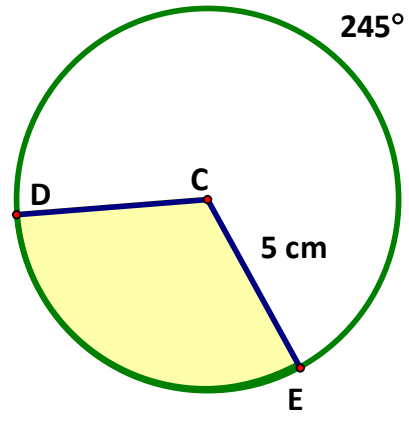
$x = \underline{\hspace{2cm}}$

17. Find the length of arc DE.



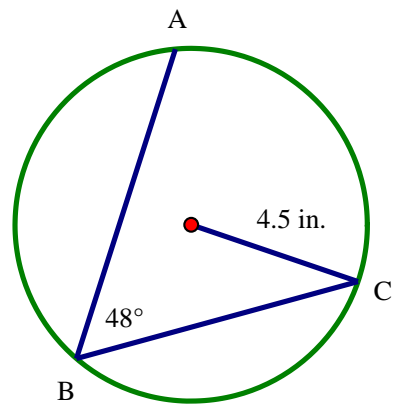
Arc Length = $\underline{\hspace{2cm}}$

18. Find the area of the **shaded** region.



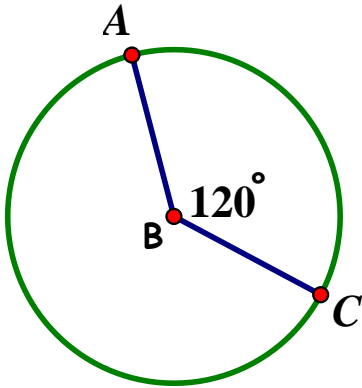
Area of sector = $\underline{\hspace{2cm}}$

19. Find the length of AC in the following circle:



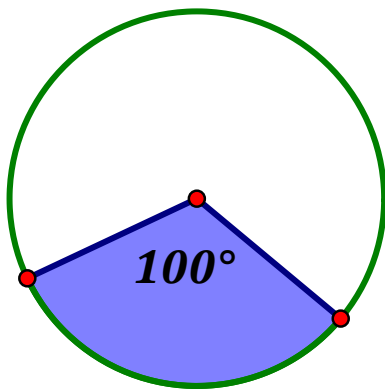
Arc Length = $\underline{\hspace{2cm}}$

20. What is the radius of the following circle if the arc length of ABC is 2π cm?



$r =$ _____

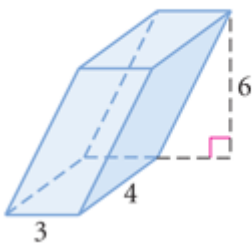
21. If the area of the sector is 22.5π cm^2 , find the radius.



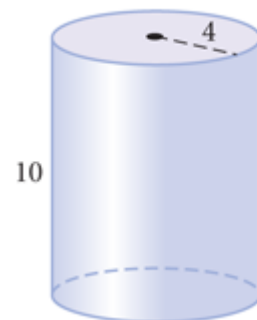
$r =$ _____

Find the volume of each solid. All measurements are in inches. Round approximate answers to the nearest hundredths.

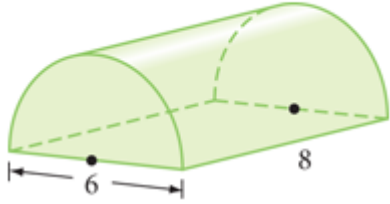
22. Oblique rectangular prism



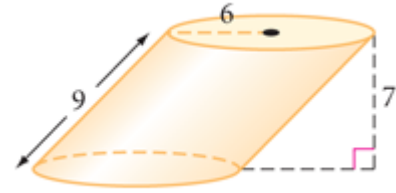
23. Right cylinder



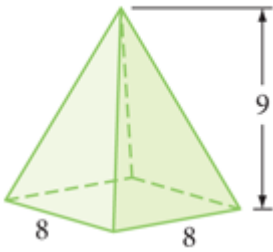
24. Right semicircular cylinder h



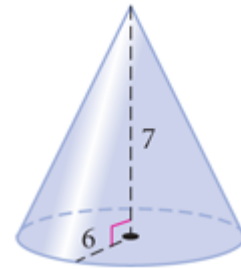
25. oblique cylinder



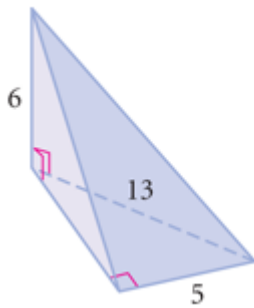
26. Square pyramid



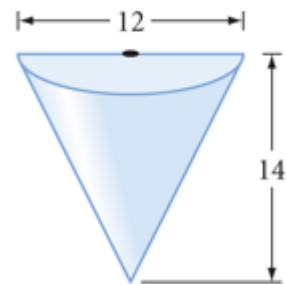
27. Cone



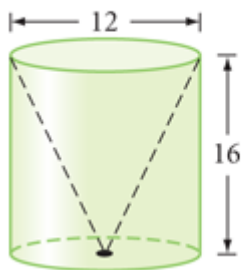
28. Triangular pyramid



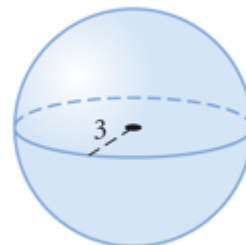
29. Semicircular cone



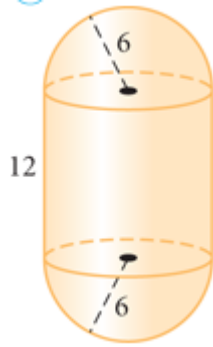
30. Cylinder with cone removed



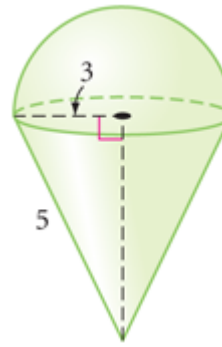
31.



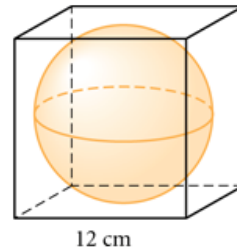
32.



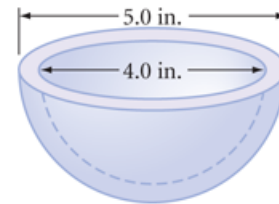
33.



34. As an exercise for her art class, Jasmine has cast a plaster cube 12 cm on each side. Her assignment is to carve the largest possible sphere from the cube. After the sphere is carved out, how much plaster is left?

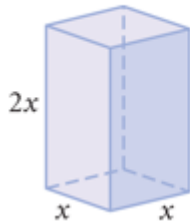


35. Find the volume of plastic (to the nearest cubic inch) needed for this hollow toy component. The outer-hemisphere diameter is 5.0 in. and the inner-hemisphere diameter is 4.0 in.

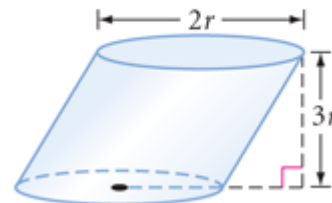


Express the volume of each solid.

36. Right rectangular prism



37. Oblique cylinder



38. Right rectangular prism with a rectangular hole

