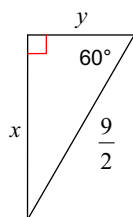


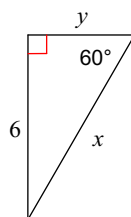
SM2 HW #10-5 (Unit 7 part 2, Units 8 and 5)

Find the missing side lengths. Leave your answers as radicals in simplest form.

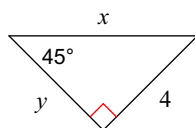
1)



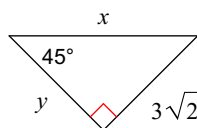
2)



3)

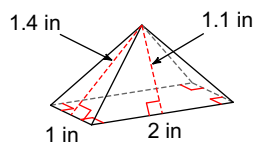


4)

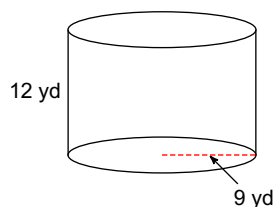


Find the surface area of each figure. Round your answers to the nearest hundredth, if necessary.

5)

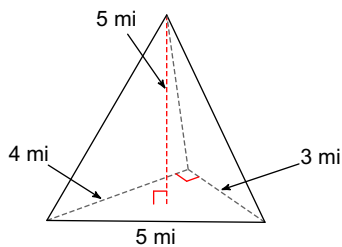


6)

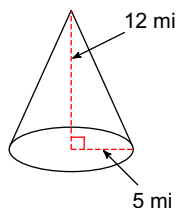


Find the volume of each figure. Round your answers to the nearest hundredth, if necessary.

7)

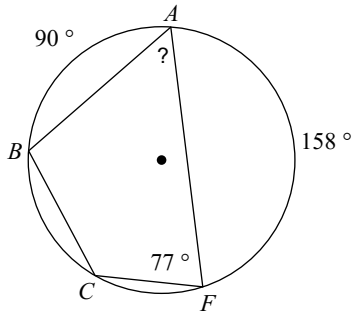


8)

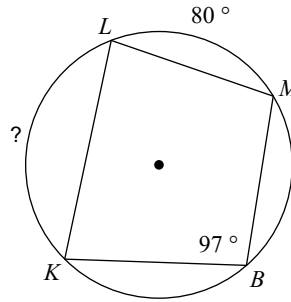


Find the measure of the arc or angle indicated.

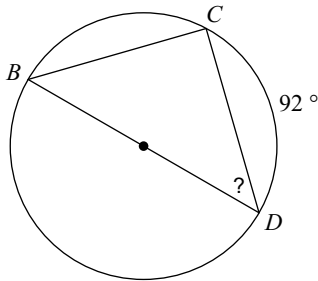
9)



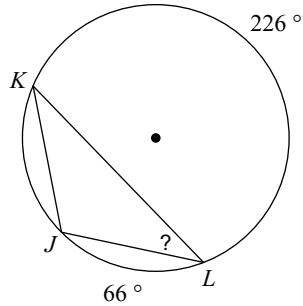
10)



11)

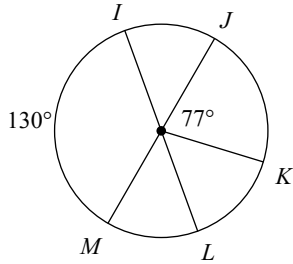


12)

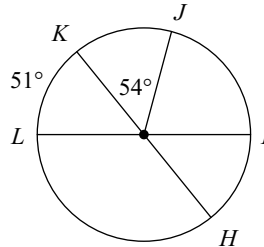


Find the measure of the arc or central angle indicated. Assume that lines which appear to be diameters are actual diameters.

13) $m\widehat{IKM}$

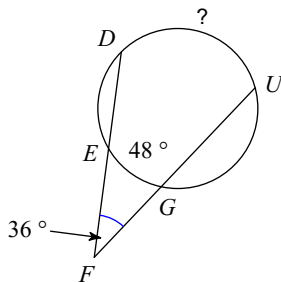


14) $m\widehat{JI}$

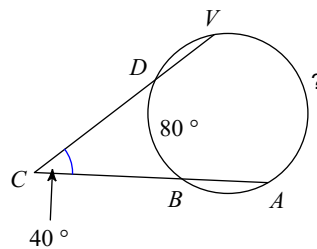


Find the measure of the arc or angle indicated. Assume that lines which appear tangent are tangent.

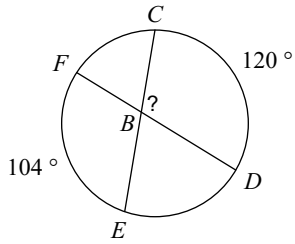
15)



16)

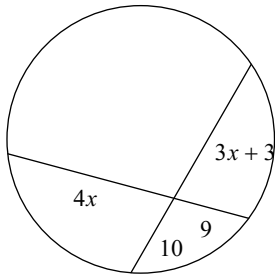


17)



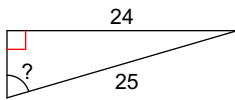
Solve for x . Assume that lines which appear tangent are tangent.

18)

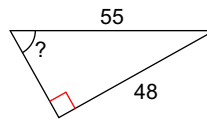


Find the measure of the indicated angle to the nearest degree.

19)

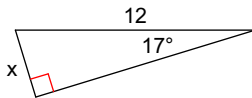


20)

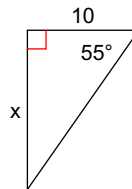


Find the missing side. Round to the nearest tenth.

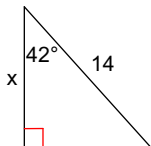
21)



22)



23)



Identify the center and radius of each.

24) $(x - 2)^2 + (y + 10)^2 = 39$

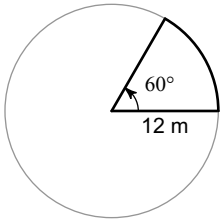
25) $y^2 - 59 - 2y + 4x = -x^2$

Use the information provided to write the equation of each circle.

- 26) Center: $(6, -15)$
Radius: $\sqrt{3}$

Find the area of each sector.

27)



Find the length of each arc.

28)

