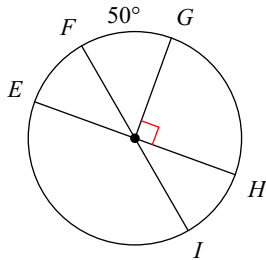


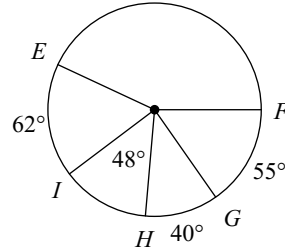
Review for Touchstone 4

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

1)  $m\widehat{GI}$

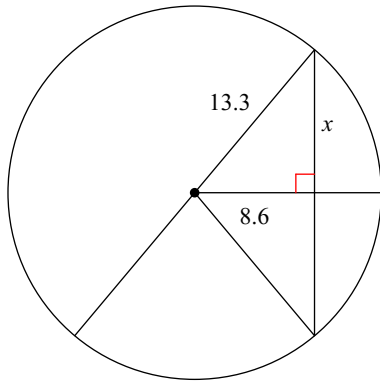


2)  $m\widehat{FH}$

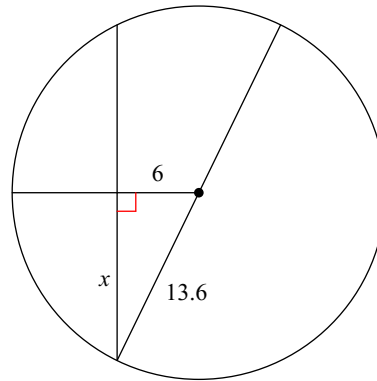


Find the length of the segment indicated. Round your answer to the nearest tenth if necessary.

3)

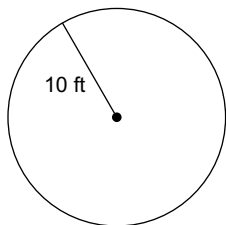


4)

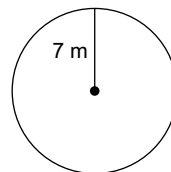


Find the area of each.

5)

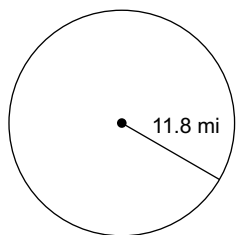


6)

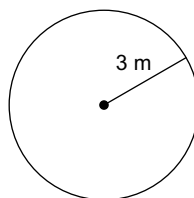


Find the circumference of each circle. Use your calculator's value of  $\pi$ . Round your answer to the nearest tenth.

7)

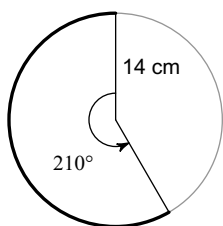


8)

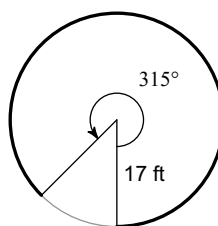


Find the length of each arc.

9)

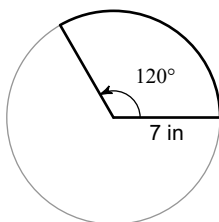


10)

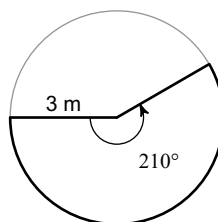


Find the area of each sector.

11)

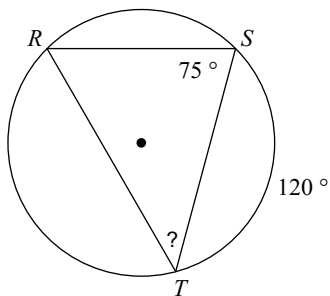


12)

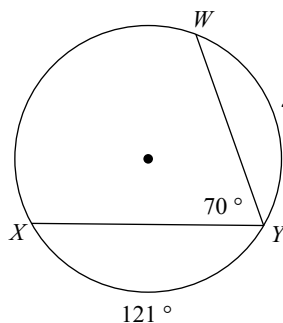


Find the measure of the arc or angle indicated.

13)

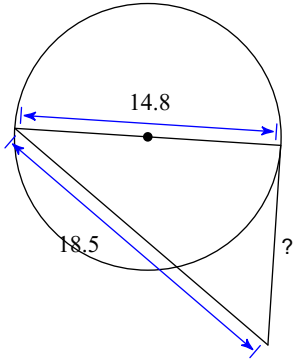


14)

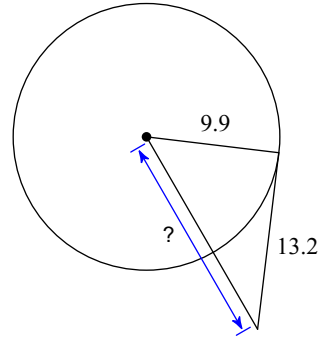


Find the segment length indicated. Assume that lines which appear to be tangent are tangent.

15)

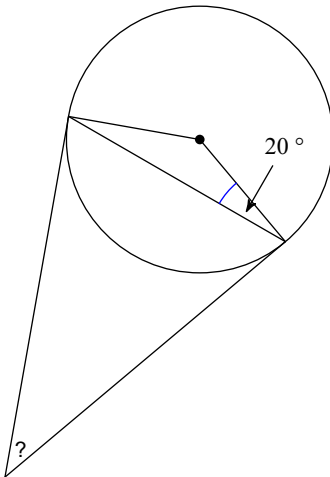


16)

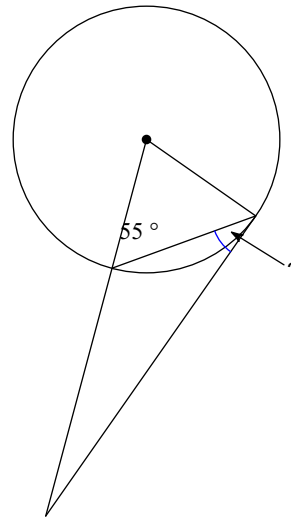


Find the angle measure indicated. Assume that lines which appear to be tangent are tangent.

17)

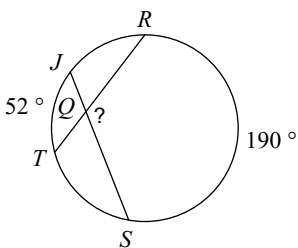


18)

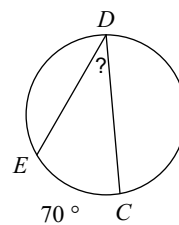


Find the measure of the arc or angle indicated. Assume that lines which appear tangent are tangent.

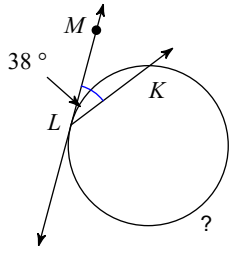
19)



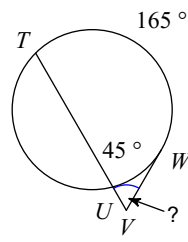
20)



21)

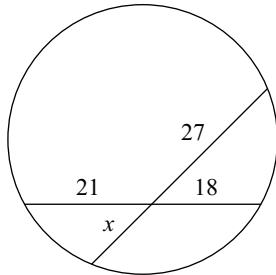


22)

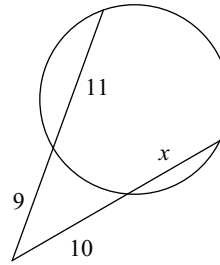


**Solve for  $x$ . Assume that lines which appear tangent are tangent.**

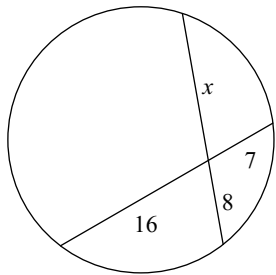
23)



24)

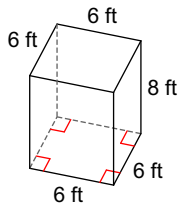


25)

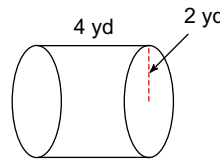


**Find the volume of each figure. Round your answers to the nearest hundredth, if necessary. Leave your answers in terms of  $\pi$  for answers that contain  $\pi$ .**

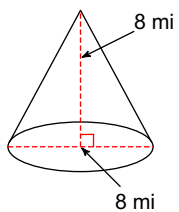
26)



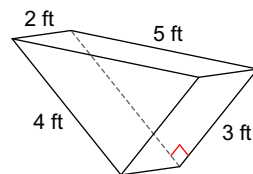
27)



28)



29)



## Answers to Review for Touchstone 4 (ID: 1)

- |                                 |                                   |                                    |                                   |
|---------------------------------|-----------------------------------|------------------------------------|-----------------------------------|
| 1) $130^\circ$                  | 2) $95^\circ$                     | 3) 10.1                            | 4) 12.2                           |
| 5) $100\pi \text{ ft}^2$        | 6) $49\pi \text{ m}^2$            | 7) 74.1 mi                         | 8) 18.8 m                         |
| 9) $\frac{49\pi}{3} \text{ cm}$ | 10) $\frac{119\pi}{4} \text{ ft}$ | 11) $\frac{49\pi}{3} \text{ in}^2$ | 12) $\frac{21\pi}{4} \text{ m}^2$ |
| 13) $45^\circ$                  | 14) $99^\circ$                    | 15) 11.1                           | 16) 16.5                          |
| 17) $40^\circ$                  | 18) $35^\circ$                    | 19) $121^\circ$                    | 20) $35^\circ$                    |
| 21) $284^\circ$                 | 22) $60^\circ$                    | 23) 14                             | 24) 8                             |
| 25) 14                          | 26) $288 \text{ ft}^3$            | 27) $16\pi \text{ yd}^3$           | 28) $42.67\pi \text{ mi}^3$       |
| 29) $12 \text{ ft}^3$           |                                   |                                    |                                   |