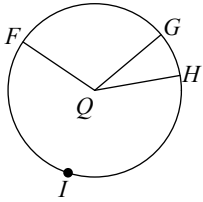


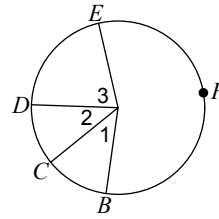
Chapter 11: Circles

If an angle is given, name the arc it makes. If an arc is given, name its central angle.

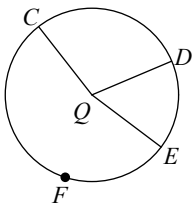
1) \widehat{FG}



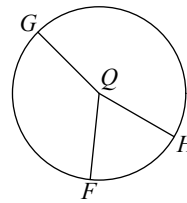
2) Major arc for $\angle I$



3) \widehat{CED}

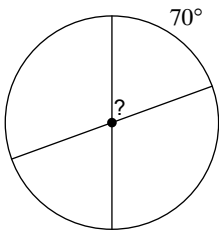


4) \widehat{FH}

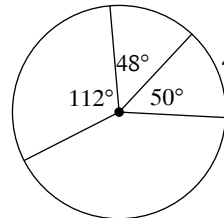


Find the measure of the arc or central angle indicated. Assume that lines which appear to be diameters are actual diameters.

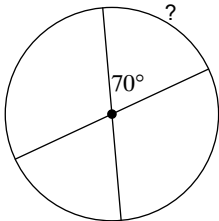
5)



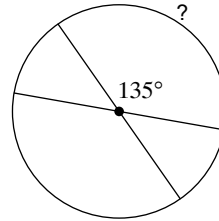
6)



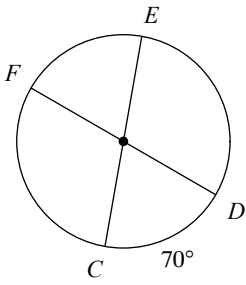
7)



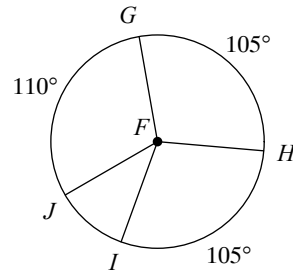
8)



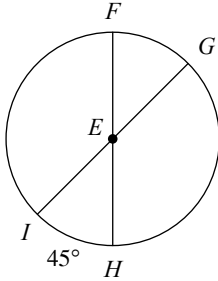
9) $m\widehat{DCE}$



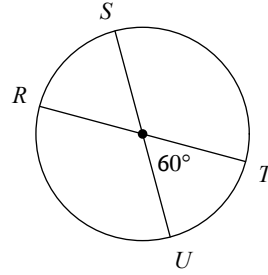
10) $m\angle IFG$



11) $m\angle IEF$

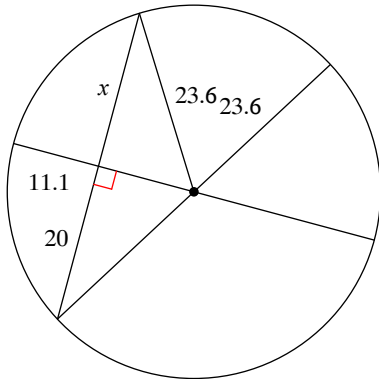


12) $m\widehat{URT}$

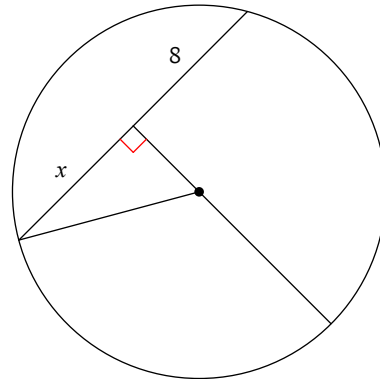


Find the length of the segment indicated. Round your answer to the nearest tenth if necessary.

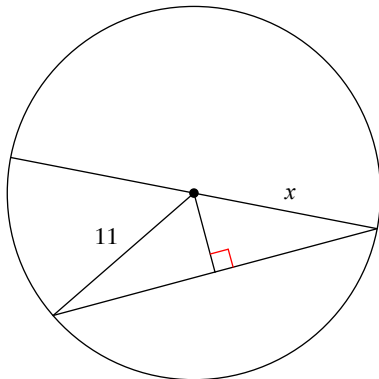
13)



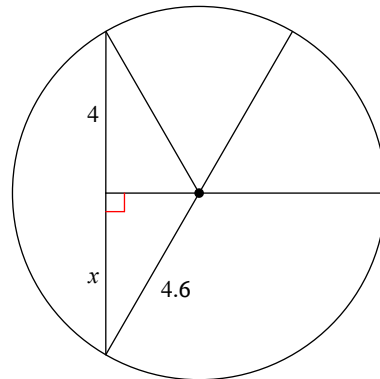
14)



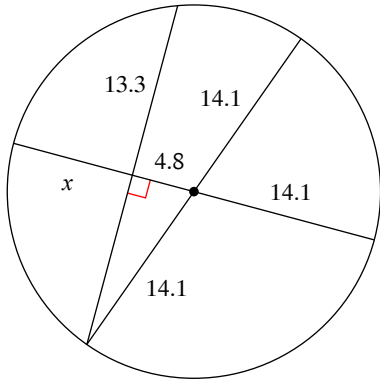
15)



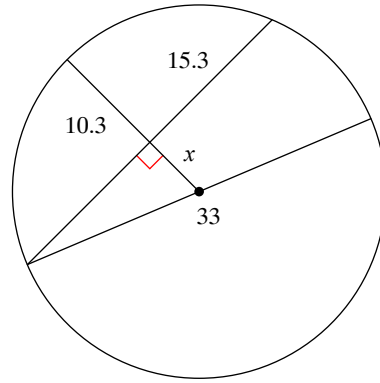
16)



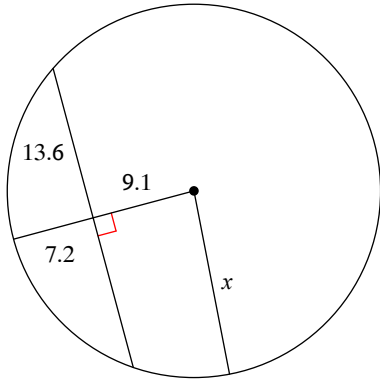
17)



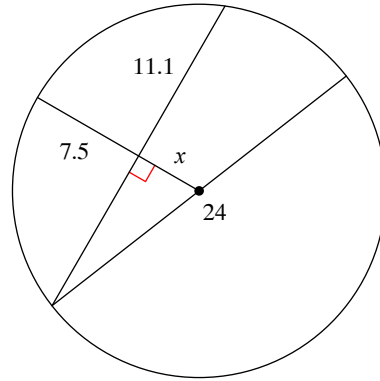
18)



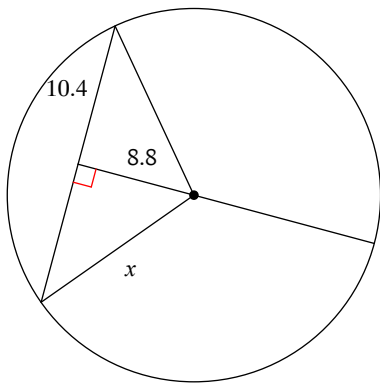
19)



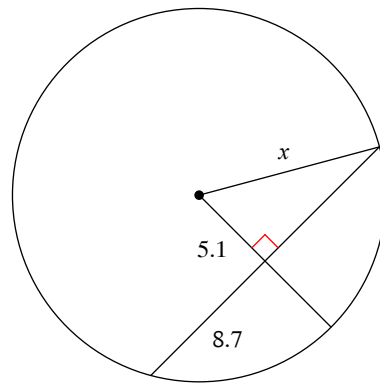
20)



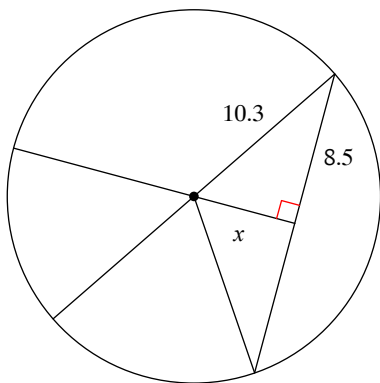
21)



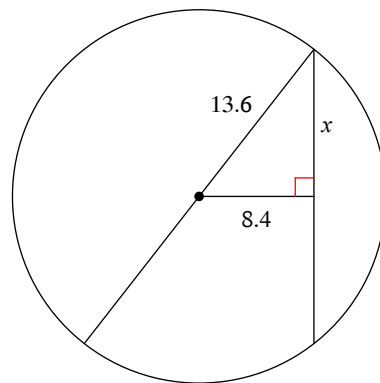
22)



23)

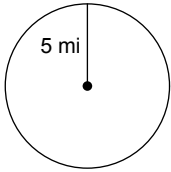


24)

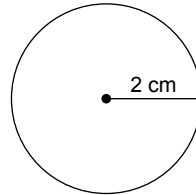


Find the circumference of each circle. Use your calculator's value of π . Round your answer to the nearest tenth.

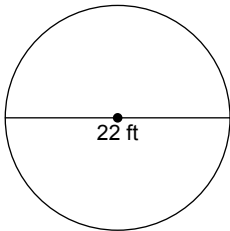
25)



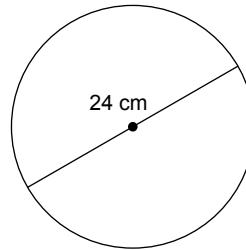
26)



27)

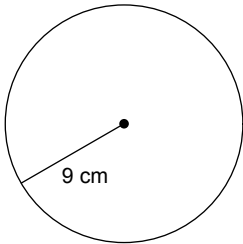


28)

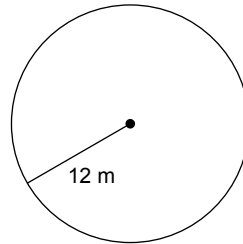


Find the area of each. Use your calculator's value of π . Round your answer to the nearest tenth.

29)

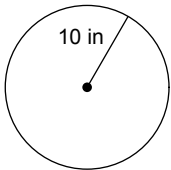


30)

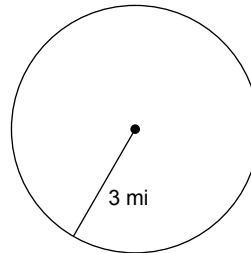


Find the circumference of each circle. Use your calculator's value of π . Round your answer to the nearest tenth.

31)

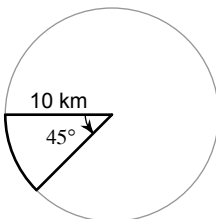


32)

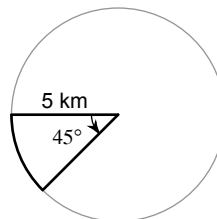


Find the area of each sector.

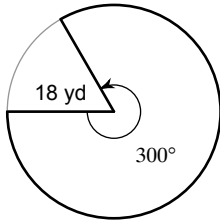
33)



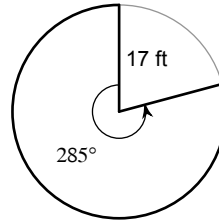
34)



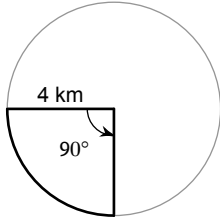
35)



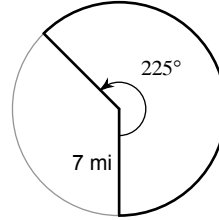
36)



37)



38)



Find the radius of each circle. Use your calculator's value of π . Round your answer to the nearest tenth.

39) circumference = 37.7 km

40) circumference = 31.4 mi

41) circumference = 16.3 yd

42) circumference = 28.9 yd

43) area = 314.2 ft^2

44) area = 415.5 mi^2

45) area = 28.3 ft^2

46) area = 21.2 km^2

Answers to Chapter 11: Circles (ID: 1)

- | | | | |
|------------------------------------|-------------------------------------|---------------------------|---------------------------------------|
| 1) $\angle FQG$ | 2) \widehat{BEC} | 3) $\angle CQD$ | 4) $\angle FQH$ |
| 5) 70° | 6) 50° | 7) 70° | 8) 135° |
| 9) 250° | 10) 150° | 11) 135° | 12) 300° |
| 13) 20 | 14) 8 | 15) 11 | 16) 4 |
| 17) 9.3 | 18) 6.2 | 19) 16.3 | 20) 4.5 |
| 21) 13.6 | 22) 10.1 | 23) 5.8 | 24) 10.7 |
| 25) 31.4 mi | 26) 12.6 cm | 27) 69.1 ft | 28) 75.4 cm |
| 29) 254.5 cm^2 | 30) 452.4 m^2 | 31) 62.8 in | 32) 18.8 mi |
| 33) $\frac{25\pi}{2} \text{ km}^2$ | 34) $\frac{25\pi}{8} \text{ km}^2$ | 35) $270\pi \text{ yd}^2$ | 36) $\frac{5491\pi}{24} \text{ ft}^2$ |
| 37) $4\pi \text{ km}^2$ | 38) $\frac{245\pi}{8} \text{ mi}^2$ | 39) 6 km | 40) 5 mi |
| 41) 2.6 yd | 42) 4.6 yd | 43) 10 ft | 44) 11.5 mi |
| 45) 3 ft | 46) 2.6 km | | |