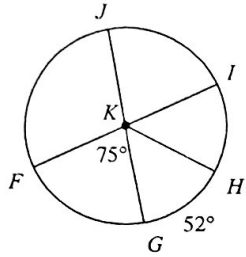


Unit 9 Circles Review

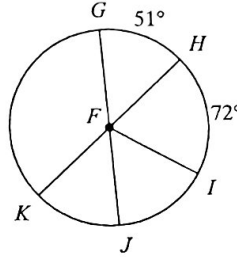
Find the measure of the arc or central angle indicated. Assume that lines which appear to be diameters are actual diameters.

1) $m\angle JKH$



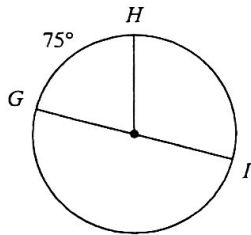
128°

2) $m\angle KFG$



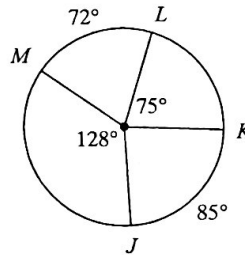
129°

3) $m\widehat{HI}$



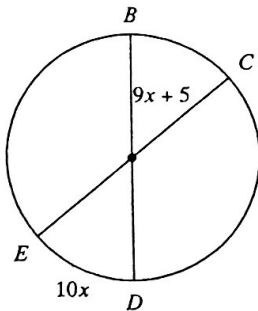
105°

4) $m\widehat{KJM}$



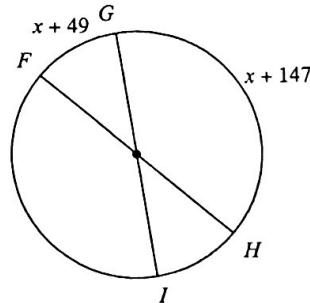
213°

5) $m\widehat{BC}$



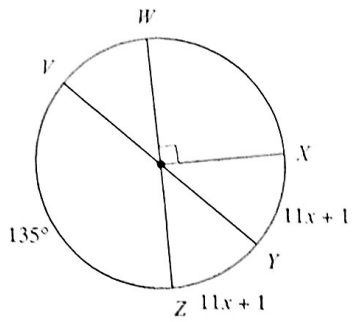
50°

6) $m\widehat{HIG}$



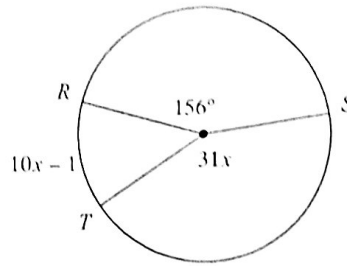
221°

7) $m\widehat{XY}$



45°

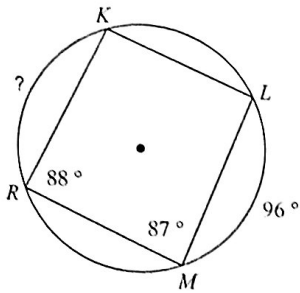
8) $m\widehat{TR}$



49°

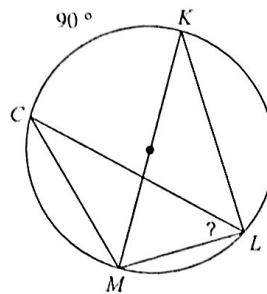
Find the measure of the arc or angle indicated.

9)



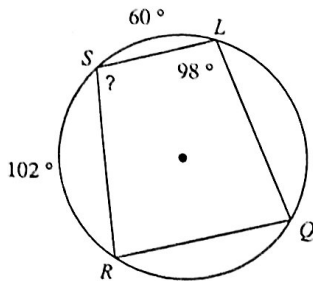
94°

10)



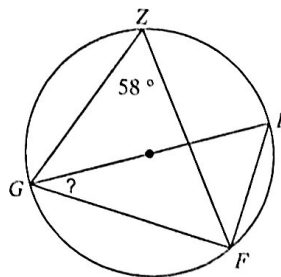
45°

11)



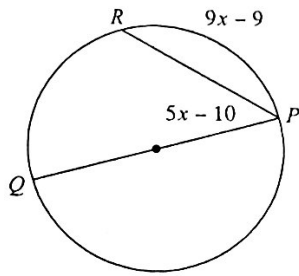
99°

12)



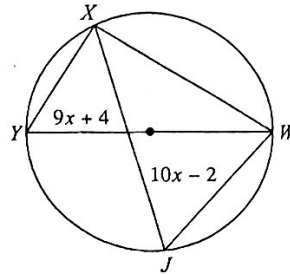
32°

13) Find $m\angle QPR$



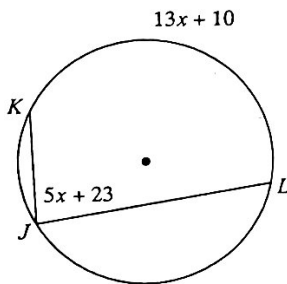
45°

14) Find $m\widehat{XW}$



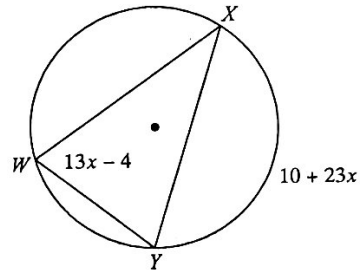
116°

15) Find $m\widehat{KL}$



166°

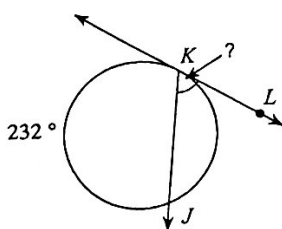
16) Find $m\angle YWX$



74°

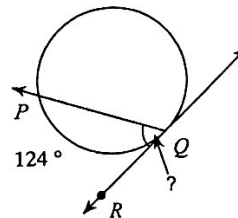
Find the measure of the arc or angle indicated. Assume that lines which appear tangent are tangent.

17)



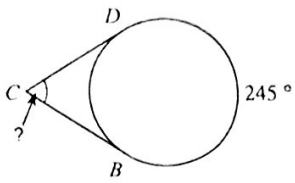
64°

18)



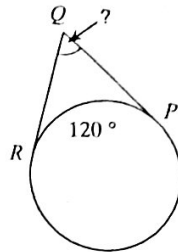
62°

19)



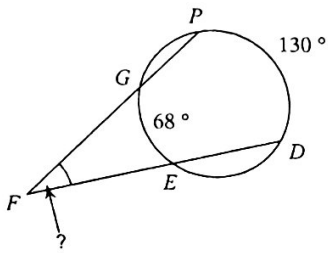
65°

20)



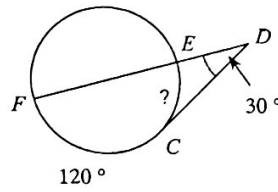
60°

21)



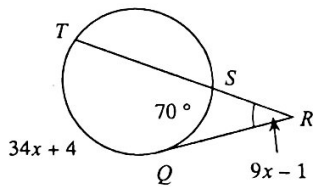
31°

22)



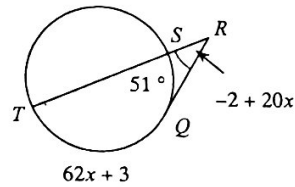
60°

23) Find $m\angle QRT$



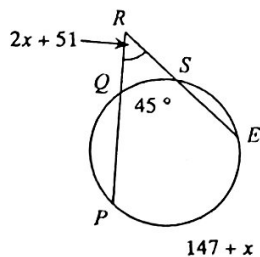
35°

24) Find $m\angle QRT$



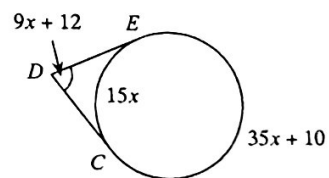
38°

25) Find $m\widehat{EP}$



147°

26) Find $m\angle EDC$



75°

Convert each degree measure into radians.

27) 195°

$$\frac{13\pi}{12}$$

28) 45°

$$\frac{\pi}{4}$$

Convert each radian measure into degrees.

29) $\frac{3\pi}{4}$

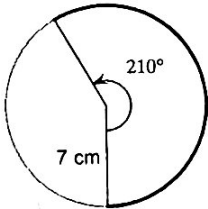
$$135^\circ$$

30) $\frac{19\pi}{18}$

$$190^\circ$$

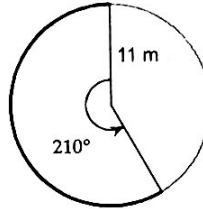
Find the length of each arc.

31)



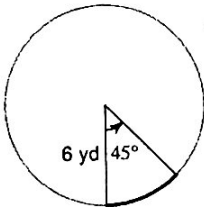
Exact: $\frac{49\pi}{6}$ cm
Approx: 25.66 cm

32)



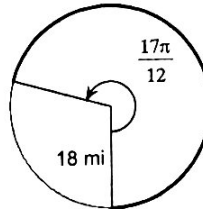
Exact: $\frac{77\pi}{6}$ cm
Approx: 40.32 cm

33)



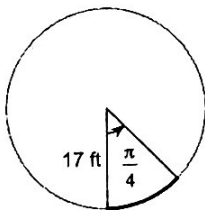
Exact: $\frac{3\pi}{2}$ yd
Approx: 4.71 yd

34)



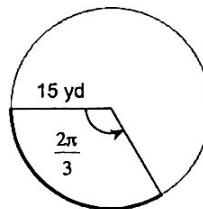
Exact: $\frac{51\pi}{2}$ mi
Approx: 80.11 mi

35)



Exact: $\frac{17\pi}{4}$ ft
Approx: 13.35 ft

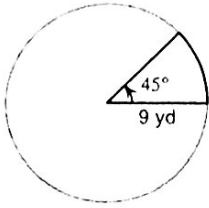
36)



Exact: 10π yd
Approx: 31.42 yd

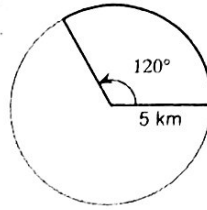
Find the area of each sector.

37)



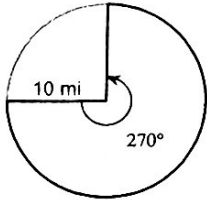
Exact: $\frac{81\pi}{8}$ yd²
Approx: 31.81 yd²

38)



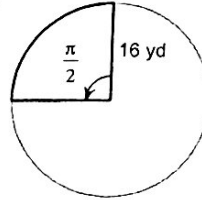
Exact: $\frac{25\pi}{3}$ km²
Approx: 26.18 km²

39)



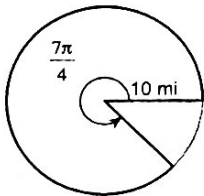
Exact: 75π mi²
Approx: 235.62 mi²

40)



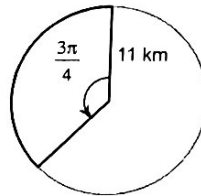
Exact: 64π yd²
Approx: 201.06 yd²

41)



Exact: $\frac{175\pi}{2}$ mi²
Approx: 274.89 mi²

42)



Exact: $\frac{363\pi}{8}$ km²
Approx: 142.55 km²