

Radians & Degrees

Convert each degree measure into radians.

1) 225°

2) 315°

3) 340°

4) 210°

5) 240°

6) 190°

7) 300°

8) 160°

Convert each radian measure into degrees.

9) $\frac{\pi}{4}$

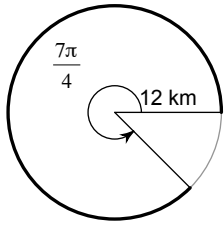
10) $\frac{\pi}{6}$

11) $\frac{7\pi}{6}$

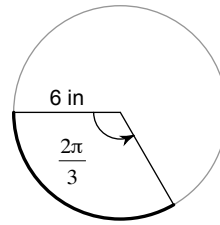
12) $\frac{23\pi}{18}$

Find the length of each arc. Write solutions in exact and approximate forms.

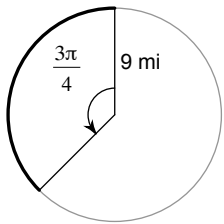
13)



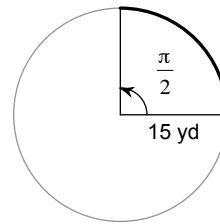
14)



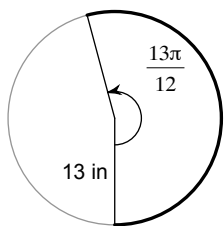
15)



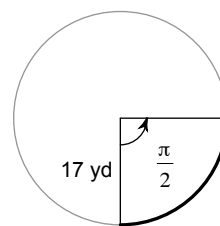
16)



17)

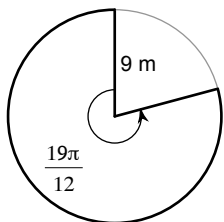


18)

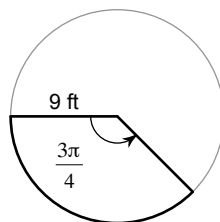


Find the area of each sector. Write solutions in exact and approximate forms.

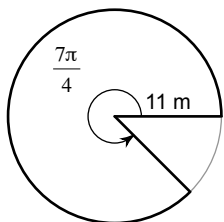
19)



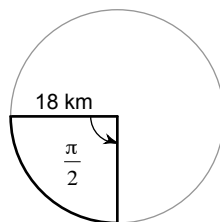
20)



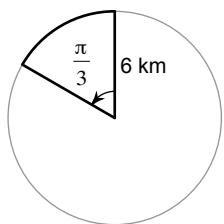
21)



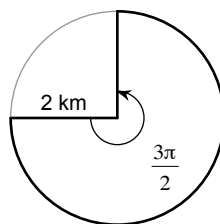
22)



23)

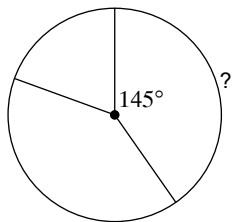


24)

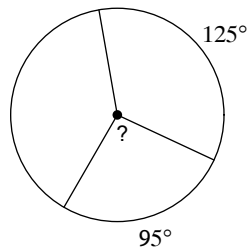


Find the measure of the arc or central angle indicated. Assume that lines which appear to be diameters are actual diameters.

25)

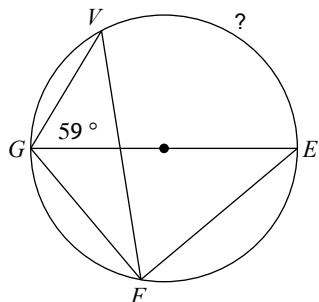


26)

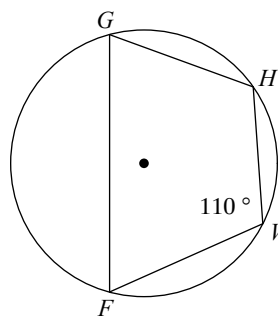


Find the measure of the arc or angle indicated.

27)



28) Find $m\widehat{FGH}$



Factor each completely.

29) $n^2 + 19n + 90$

30) $a^2 + 3a - 70$

31) $n^2 - 7n + 6$

32) $n^2 - 10n + 25$