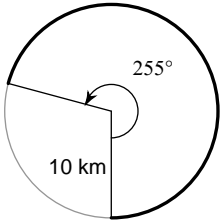


Arc Length and Sector Area

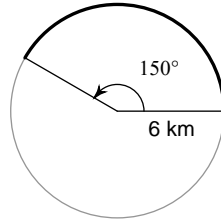
© 2011 Kuta Software LLC. All rights reserved.

Find the length of each arc. Round your answers to the nearest tenth.

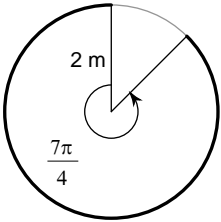
1)



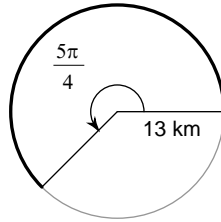
2)



3)



4)



5) $r = 9 \text{ cm}, \theta = 210^\circ$

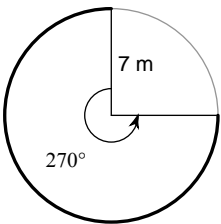
6) $r = 16 \text{ yd}, \theta = 90^\circ$

7) $r = 10 \text{ m}, \theta = \frac{7\pi}{6}$

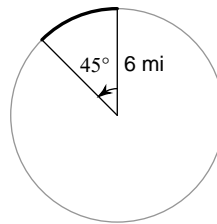
8) $r = 14 \text{ m}, \theta = \frac{2\pi}{3}$

Find the length of each arc.

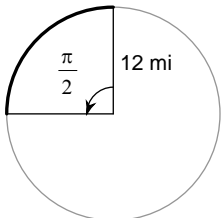
9)



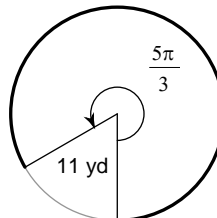
10)



11)

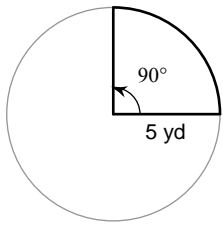


12)

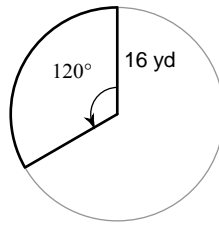


Find the area of each sector. Round your answers to the nearest tenth.

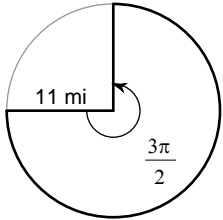
13)



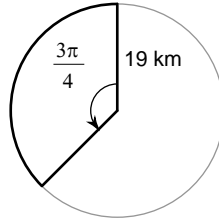
14)



15)

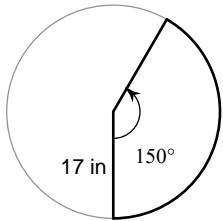


16)

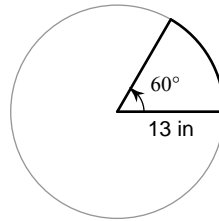


Find the area of each sector.

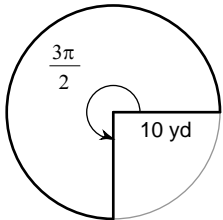
17)



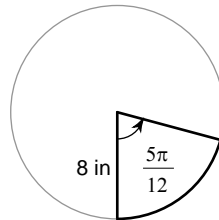
18)



19)



20)



21) $r = 14 \text{ yd}, \theta = \frac{3\pi}{2}$

22) $r = 5 \text{ km}, \theta = \frac{\pi}{3}$

23) $r = 11 \text{ m}, \theta = 30^\circ$

24) $r = 7 \text{ km}, \theta = 225^\circ$