

Quiz Review-Arc Length/Area of Sector

Find the exact length of each arc.

1) $r = 11$ mi, $\theta = 270^\circ$

2) $r = 15$ cm, $\theta = 240^\circ$

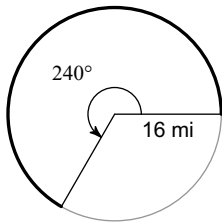
Find the length of each arc. Round your answers to the nearest hundredth.

3) $r = 4$ in, $\theta = 210^\circ$

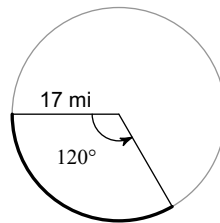
4) $r = 9$ cm, $\theta = 90^\circ$

Find the exact length of each arc.

5)

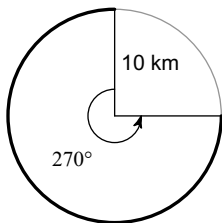


6)

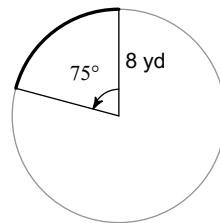


Find the length of each arc. Round your answers to the nearest hundredth

7)



8)



Find the exact area of each sector.

9) $r = 13$ in, $\theta = 90^\circ$

10) $r = 9$ mi, $\theta = 30^\circ$

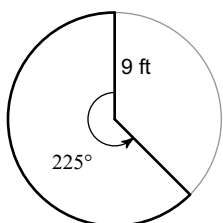
Find the area of each sector. Round your answers to the nearest hundredth

11) $r = 15$ ft, $\theta = 165^\circ$

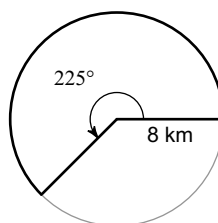
12) $r = 8$ yd, $\theta = 225^\circ$

Find the exact area of each sector.

13)

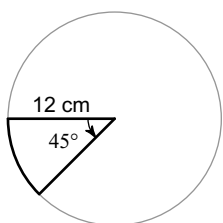


14)

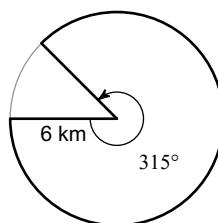


Find the area of each sector. Round your answers to the nearest hundredth

15)



16)



17) A large pizza has a diameter of 14 inches. If the large pizza has 10 slices, what is the length of the crust of one slice (round to the hundredths)?

18) A medium pizza has a diameter of 12 inches. If the medium pizza has 8 slices, what is the area of 2 slices?

Answers to Quiz Review-Arc Length/Area of Sector (ID: 1)

1) $\frac{33\pi}{2}$ mi

2) 20π cm

3) 14.7 in

4) 14.1 cm

5) $\frac{64\pi}{3}$ mi

6) $\frac{34\pi}{3}$ mi

7) 47.1 km

8) 10.5 yd

9) $\frac{169\pi}{4}$ in²

10) $\frac{27\pi}{4}$ mi²

11) 324.0 ft²

12) 125.7 yd²

13) $\frac{405\pi}{8}$ ft²

14) 40π km²

15) 56.5 cm²

16) 99.0 km²

17)

18)