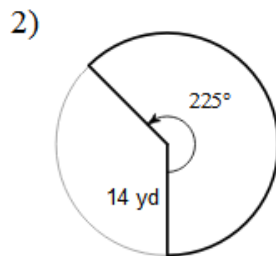
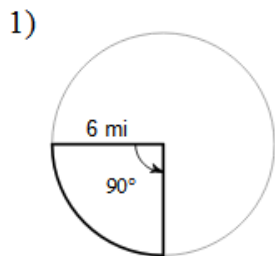
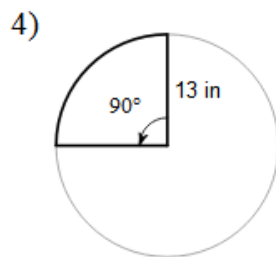
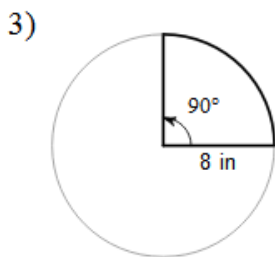


Sector Area

Find the area of each sector. Leave answers in terms of pi.



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



Find the area of each sector.

5)  $r = 12$  yd,  $\theta = 135^\circ$

6)  $r = 9$  yd,  $\theta = 210^\circ$

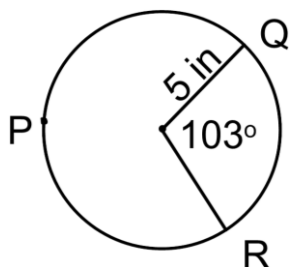
Find the missing value. Leave answers in terms of pi.

7) If  $A_{\text{sector}} = 16\pi$  in<sup>2</sup> and  $\theta = 45^\circ$ , what is the radius?

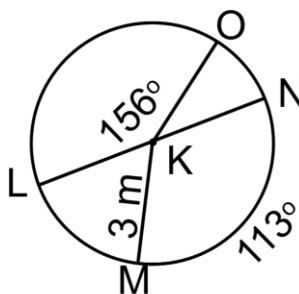
8) ) If  $A_{\text{sector}} = 16\pi$  in<sup>2</sup> and  $\theta = 45^\circ$ , what is the radius?

Find the area of each indicated sector. Round your answer to the nearest thousandth. Assume any segment that looks like a diameter is a diameter.

9. Find the area of the sector formed by of  $\widehat{RPQ}$ .

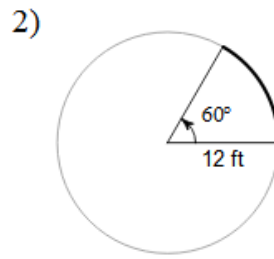
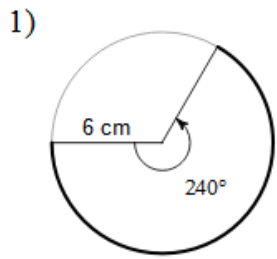


10. Find the area of the sector formed by  $\widehat{ON}$ .

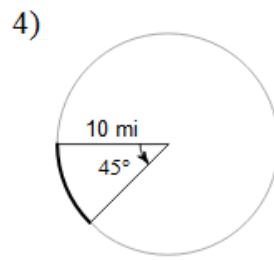
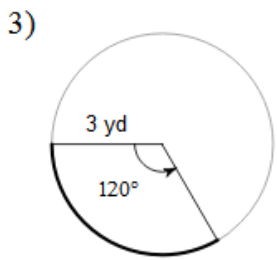


Arc Length

Find the length of each arc. Leave answers in terms of pi.



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



Find the length of each arc. Leave answers in terms of pi.

5)  $r = 11 \text{ mi}, \theta = 120^\circ$

6)  $r = 10 \text{ cm}, \theta = 45^\circ$

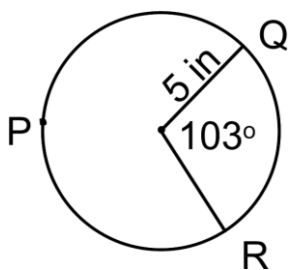
Find the missing value. Leave answers in terms of pi.

7) If  $S = 4\pi \text{ ft}$  and  $\theta = 120^\circ$ , what is the radius?

8) If  $S = 8\pi \text{ m}$  and  $r = 13.5 \text{ m}$ , what is the central angle?

Find the length of each indicated arc. Round answers to the nearest thousandth. Assume any segment that looks like a diameter is a diameter.

9. Find the length of  $\widehat{RPQ}$ .



10. Find the length of  $\widehat{ON}$ .

