9.5 Sectors and Segments

CORRECTIVE ASSIGNMENT

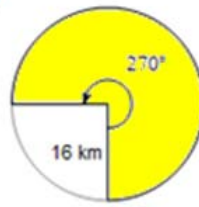**Find the area of each sector. Leave your answer in terms of pi.**

1)
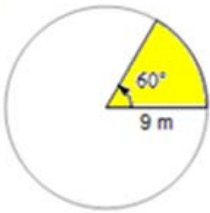
2)

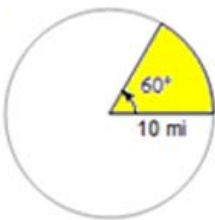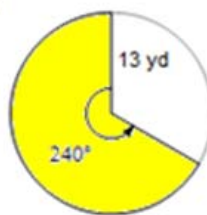3) $r = 3$ m, $\theta = 90°$

4) $r = 12$ m, $\theta = 60°$

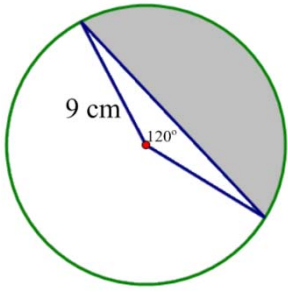**Find the area of each sector. Round your answer to the nearest tenth.**
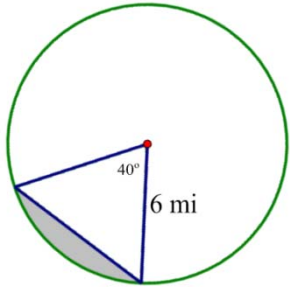
5)

6)

7) $r = 4$ cm, $\theta = 195°$

8) $r = 10$ cm, $\theta = 105°$

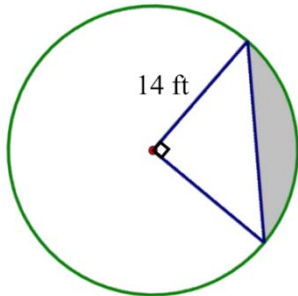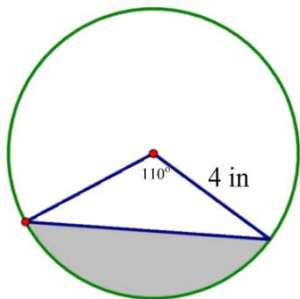**Find the area of the segment of each circle. Label your answer! Round to the nearest tenth.**

9)

9 cm
120°

10)

40°
6 mi

11)

14 ft

12)

110°
4 in

ANSWERS FOR CORRECTIVE ASSIGNMENT 9.5

1) $\dfrac{27\pi}{2}$ m²

2) 192π km²

3) $\dfrac{9\pi}{4}$ m²

4) 24π m²

5) 52.4 mi²

6) 354.0 yd²

7) 27.2 cm²

8) 91.6 cm²

9) $49.7\ cm^2$

10) $1\ mi^2$

11) $55.9\ ft^2$

12) $7.9\ in^2$