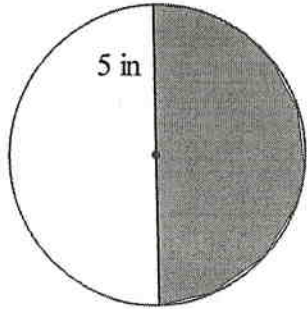Name: _____

Date: _____

45| ‌ً‌‌ɔ) s -12

Find the area of the following shaded sectors. Then, find the length of the arc of the shaded sector.
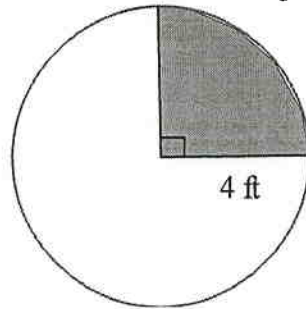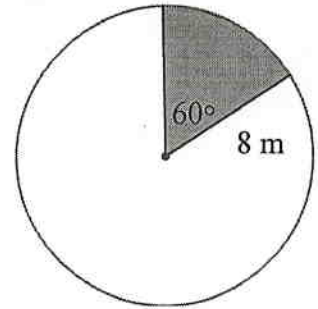
1.
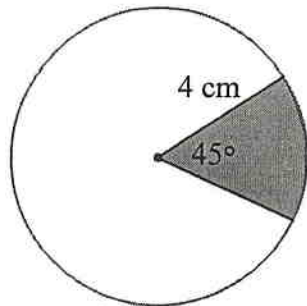
5 in

Area:

Arc Length:

2.

4 ft

Area:

Arc Length:

3.

60°
8 m

Area:

Arc Length:

4.

4 cm
45°

Area:

Arc Length:

5.

120°
7 ft

Area:

Arc Length:

6.

12 in

Area:
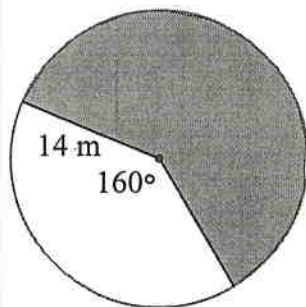
Arc Length:

7.
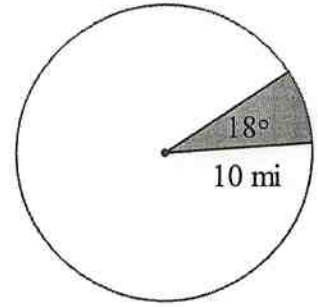
11 mm

Area:

Arc Length:

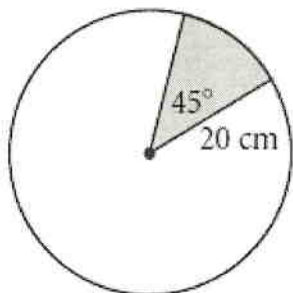8.

14 m
160°

Area:

Arc Length:

9.

18°
10 mi
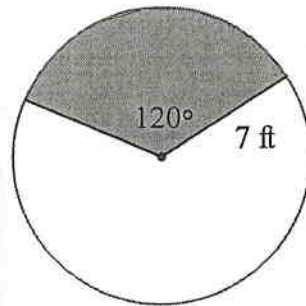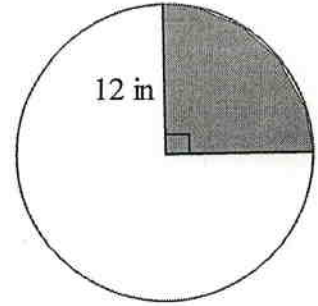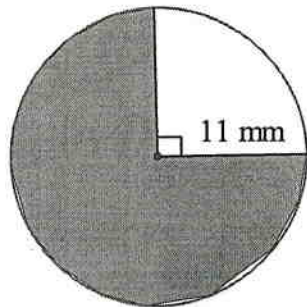
Area:

Arc Length:

Complete the following examples. Be sure to **show all work**!

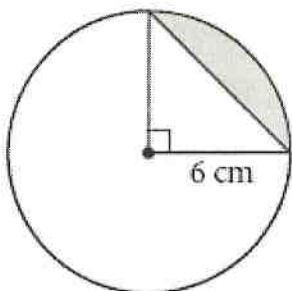(Remember to write <u>each</u> equation first!)

Example: Find the **exact** area of the shaded sector.

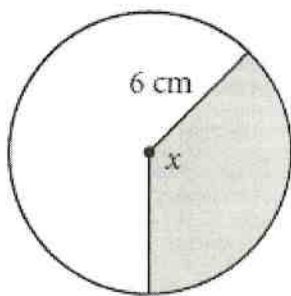

Area of shaded sector: _____

Example: Find the exact area of the shaded segment.

Plan:

Area of shaded segment: _____

Example: The shaded area is $14\pi\ cm^2$, and the radius is $6\ cm$. Find the **exact** value of x.

$x =$ _____

Homework: page 455 1-12 20-23