Chapter 7 Review
Homework Answers
Pg 400 - #1-10
Pg 412 - #1-22, 24, 25

Pg 400

1) $135\,in^2$

2) $58.5\,m^2$

3) $72\sqrt{3}\,in^2$

4) $27\sqrt{3}\ ft^2$

5) $32\,yd^2$

6) $100\pi\,in^2$

7) $27\pi\,m^2$

8) $(16\pi - 32)\,cm^2$

9) $31.4\ m$

10) $\frac{9\pi}{2}\,mm$

Pg 412

1) $78\ ft^2$

2) $72\,mm^2$

3) $62.4\,m^2$

4) $13.5\,in^2$

5) $41.6\ ft^2$

6) $172.8\,cm^2$

7) $\sqrt{170}$

8) $2\sqrt{14}$

9) $x = y = \frac{11\sqrt{2}}{2}$

10) $x = 4\sqrt{3}; y = 8\sqrt{3}$

11) acute

12) right

13) obtuse

14) The ratio of the length of the longer leg to the length of the shorter leg is $\sqrt{3}:1$. The ratio of the length of the hypotenuse to the length of the shorter leg is 2:1. Find the length of the shorter leg 1st, and then use it to find the remaining lengths.

15) 40

16) 50

17) 270

18) 310

19) $\frac{10\pi}{3}\,in$

20) $1.5\pi\ cm$

21) $31.42\,m^2$

22) $30.10\ ft^2$

24) $(72 + 18\pi)\,cm^2$

25) $(54 - 9\pi)\,m^2$