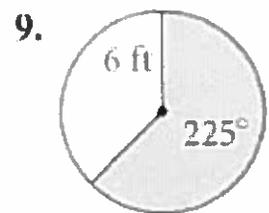
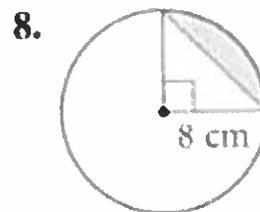
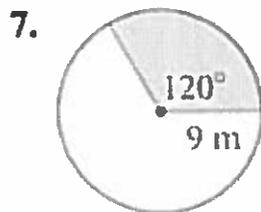
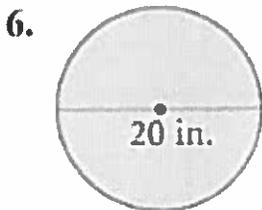


Page 580 #6-10

Find the area of each shaded region. Leave answers in terms of  $\pi$ .



10. In a circle of radius 18 mm,  $m\widehat{AB} = 45$ . Find the length of  $\widehat{AB}$  in terms of  $\pi$ .

$$\frac{45}{360} \cdot 2\pi(18) = 4.5\pi \text{ mm}$$

6.  $100\pi \text{ in}^2$

7.  $\frac{120}{360} \cdot 81\pi$   
 $27\pi \text{ m}^2$

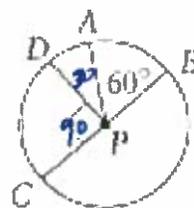
8.  $\frac{90}{360} \cdot 64\pi$   
 $A_{\text{sector}} = \frac{16}{9}\pi$   
 $A_{\Delta} = \frac{1}{2}(8)(8) = 32$   
 $A_{\text{seg}} = (16\pi - 32) \text{ cm}^2$

9.  $\frac{225}{360} \cdot 36\pi$   
 $22.5\pi \text{ ft}^2$

Page 591 #26-33

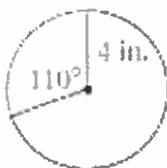
Find each measure.

26.  $m\angle APD$   $30^\circ$     27.  $m\widehat{AC}$   $120^\circ$   
 28.  $m\widehat{ABD}$   $330^\circ$     29.  $m\angle CPA$   $120^\circ$



Find the length of each arc shown in red. Leave your answer in terms of  $\pi$ .

30.

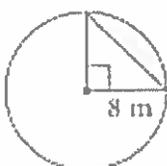


31.



Find the area of each shaded region. Round your answer to the nearest tenth.

32.

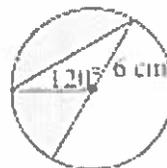


$A_{\text{sector}} - A_{\Delta} = A_{\text{segment}}$

$$\frac{90}{360} \cdot \pi(8)^2 - \frac{1}{2}(8)(8)$$

$$16\pi - 32 = 18.3 \text{ m}^2$$

33.



$A_{\text{sector}} - A_{\Delta} = \text{Total shaded}$

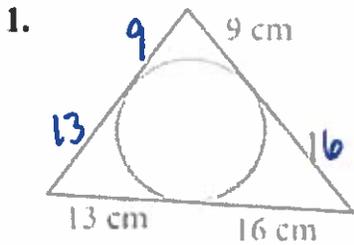
$$\frac{1}{2}(6)^2\pi - \frac{1}{2}(6)(6)\sin 120$$

$$18\pi - 15.588$$

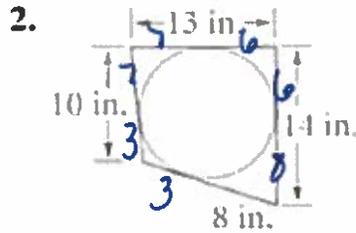
$\boxed{41 \text{ cm}^2}$

Page 685 #1-3, 7-10

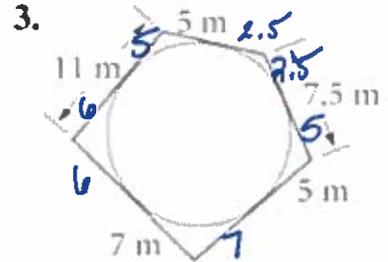
Each polygon below circumscribes the circle. Find the perimeter of the polygon.



76 cm

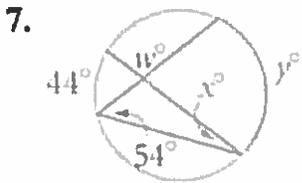


51 in

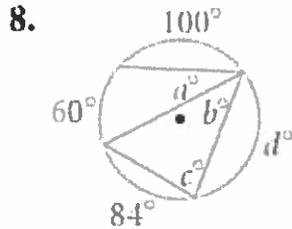


51 m

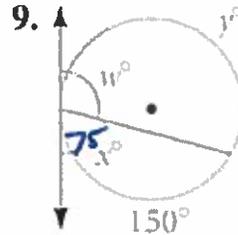
Algebra Find the value of each variable. Lines that appear to be tangent are tangent.



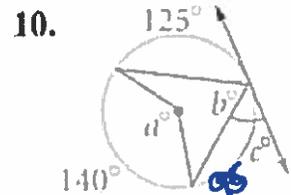
w: 104  
x: 22°  
y: 108



a: 30  
b: 42  
c: 80  
d: 116



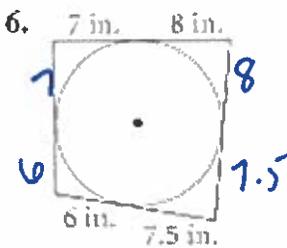
w: 105  
x: 75  
y: 210



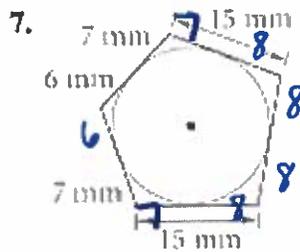
a: 140  
b: 70  
c: 47.5

Page 707 #6-8,13-15

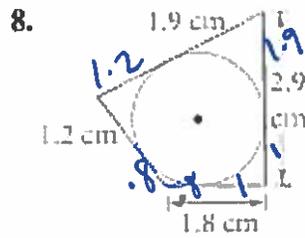
Each polygon circumscribes a circle. Find the perimeter of the polygon.



57 in.

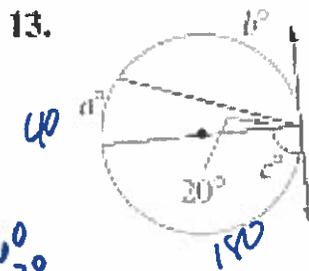


72 mm



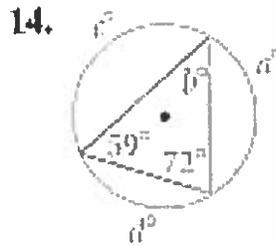
9.8 cm

Assume that lines that appear tangent are tangent. Find the value of each variable.

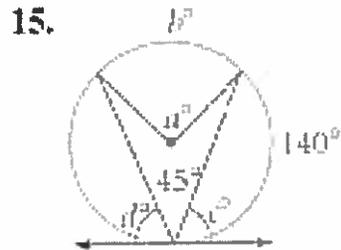


360  
-220  
-----  
140

a: 40  
b: 140  
c: 90



a: 118  
b: 49  
c: 144  
d: 98



65 45 70

a: 90  
b: 90  
c: 70  
d: 65