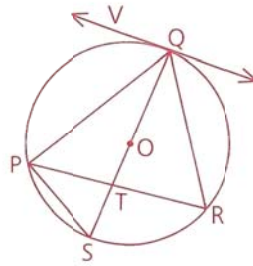


Name  
Adv Geo  
10-5, Day 2

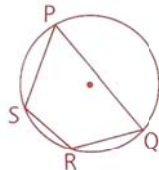
Ms. Kresovic  
W 17 Apr 2013

- 18 Given:  $\overleftrightarrow{VQ}$  is tangent to  $\odot O$  at  $Q$ .  
 $\overline{QS}$  is a diameter of  $\odot O$ .  
 $\widehat{PQ} = 115^\circ$ ;  $\angle RPS = 36^\circ$



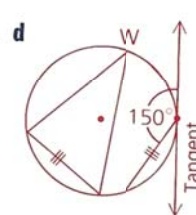
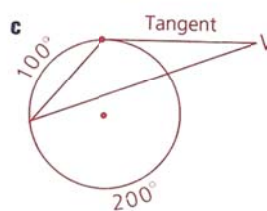
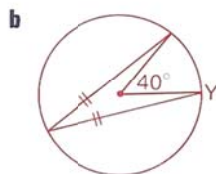
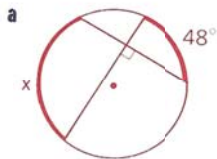
- Find: a  $\angle R$   
b  $\angle S$   
c  $\widehat{SR}$   
d  $\widehat{QR}$   
e  $\angle QPR$   
f  $\angle QPS$   
g  $\angle QTP$   
h  $\angle PQV$   
i  $\widehat{PRQ}$   
j  $\widehat{RSP}$   
k  $\angle VQS$   
l  $\angle QOP$

- 19 Given  $m\angle P = 60$  and  $m\widehat{PSR} = 128$ , find  
 $m\angle Q$ ,  $m\angle R$ , and  $m\angle S$ .

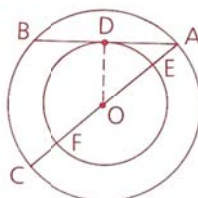


- 20 The major arc cut off by two tangents to a circle from an outside point is five thirds of the minor arc. Find the angle formed by the tangents.

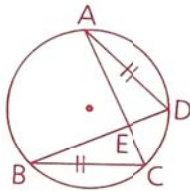
- 21 Find the measure of each arc or angle labeled with a letter.



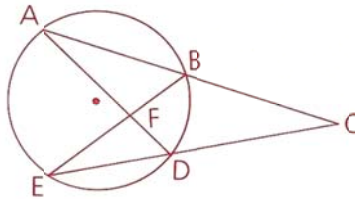
- 22 Given circles concentric at  $O$ ,  $\overline{AB}$  tangent to the inner circle, and  $\widehat{BC} = 84^\circ$ , find the measures of  $\angle A$ ,  $\widehat{DE}$ , and  $\widehat{DF}$ .



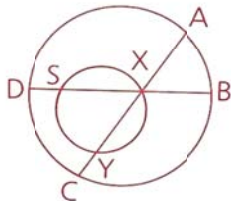
- 23 Given:  $\widehat{AB} = 92^\circ$ ,  
 $\angle AEB = 82^\circ$   
 Find:  $\widehat{AD}$



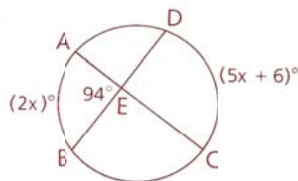
- 24 Given:  $\angle AFE = 89^\circ$ ,  
 $\angle C = 15^\circ$   
 Find:  $\widehat{AE}$  and  $\widehat{BD}$



- 25 Given:  $\widehat{SY} = 112^\circ$ ,  
 $\widehat{DC} = 87^\circ$   
 Find:  $\widehat{AB}$

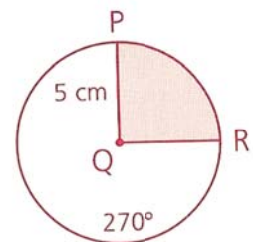


- 26 If  $\widehat{DC} = (5x + 6)^\circ$ ,  $\widehat{AB} = (2x)^\circ$ , and  
 $\angle AEB = 94^\circ$ , find  $\widehat{AB}$ .



- 28  $\triangle ABC$  is inscribed in a circle (all sides are chords),  $AB = 12$ ,  
 $AC = 6$ , and  $BC = 6\sqrt{3}$ . Find  $m\widehat{BC}$ .

- 30 a Find the exact area and circumference of Circle Q, and find the area to the nearest tenth.



- b. Find the exact area of the shaded region, and estimate it to the nearest tenth.

- c. Find the exact length of  $\widehat{PR}$ , and estimate it to the nearest tenth.