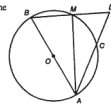
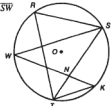


250 CIRCLES AND ANGLE MEASUREMENT

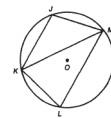
27. GIVEN: In  $\odot O$ ,  $\overline{AB}$  is a diameter, point  $M$  is the midpoint of  $\overline{BD}$ , chords  $\overline{BM}$  and  $\overline{AC}$  are extended to meet at point  $D$ .  
 PROVE:  $M$  is the midpoint of  $\overline{BC}$ .



28. GIVEN:  $\triangle RST$  is inscribed in  $\odot O$  and chords  $\overline{SW}$  and  $\overline{WK}$  are drawn.  
 $\overline{SW}$  bisects  $\angle RST$ ,  $\overline{KW} \cong \overline{SK}$ .  
 PROVE: (a)  $\triangle NWS$  is isosceles.  
 (b)  $\triangle NTK$  is isosceles.



29. GIVEN: Trapezoid  $JKLM$  with  $\overline{JK} \parallel \overline{LM}$  is inscribed in  $\odot O$ .  
 $m\angle M > m\angle L$ .  
 PROVE:  $m\angle MKL > m\angle JKM$ .



30. GIVEN:  $\overline{SR} \cong \overline{TW}$ ,  
 $\overline{MA} \cong \overline{MT}$ .  
 PROVE: Quadrilateral  $RSTW$  is a parallelogram.

