

Review of Lessons 9-1 through 9-3 and 9-5

Use the given diagram of circle A to name the following.

1) name two diameters

2) name four radii

3) name four chords

4) name a tangent

5) name a secant

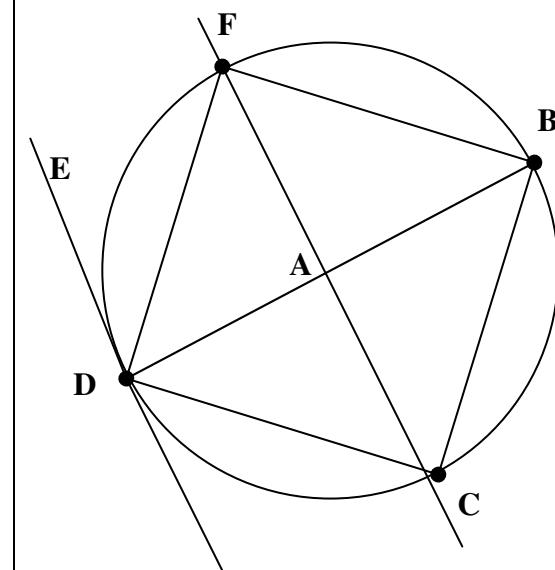
6) name four central angles

7) name four minor arcs

8) name two semi-circles

9) name four major arcs

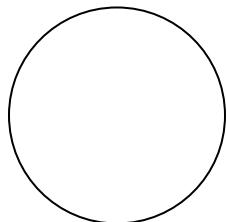
10) name a point of tangency



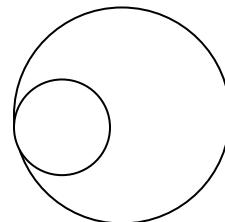
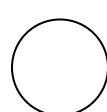
11) Draw a circle with an inscribed isosceles triangle.

Draw in the common tangents for the following.

13)



14)



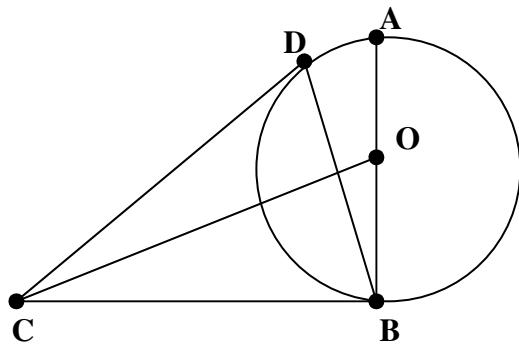
Use the diagram of circle O to find the following.

15) If $OC = 15$ and $OB = 9$ then $BC =$

16) If $AB = 12$ and $BC = 8$ then $OC =$

18) If $m\angle BCD = 70^\circ$ then $m\angle CBD =$

19) If $m\angle BCD = 50^\circ$ then $m\angle DBO =$

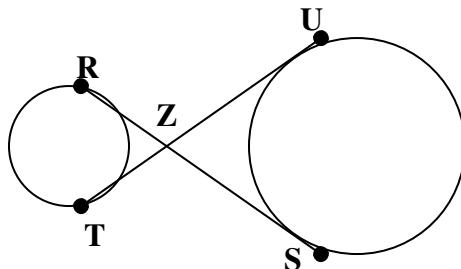


20) At 10:00 the hands of a clock form an angle of _____ $^\circ$

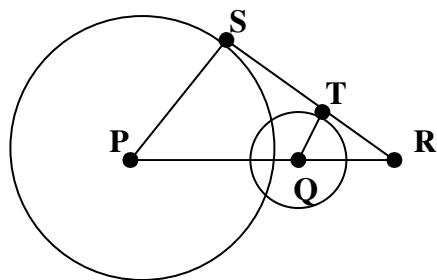
21) If the hands of a clock form an angle of 90° , the time is _____ o'clock or _____ o'clock.

Solve the following.

- 22) Find RS and TU if RZ = 4.7 and ZU = 7.3



- 23) QT = 6; TR = 8; PR = 30 find PQ, PS, and ST



Use the given diagram of concentric circles to classify the following as true or false.

24) $m\widehat{BC} = 45^\circ$

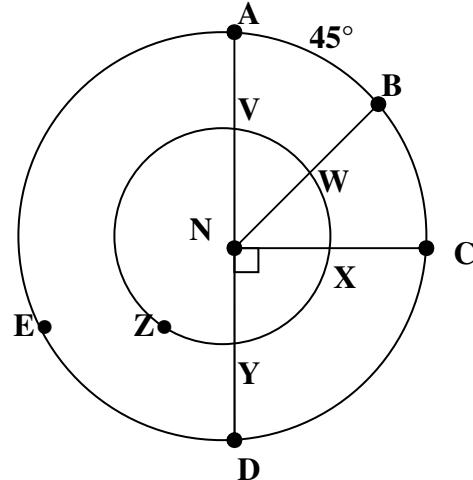
25) $\widehat{AB} \cong \widehat{VW}$

26) $m\angle DNC = 90^\circ$

27) $m\widehat{XY} = 45^\circ$

28) $\widehat{WX} \cong \widehat{VW}$

29) $\widehat{AED} \cong \widehat{VZY}$

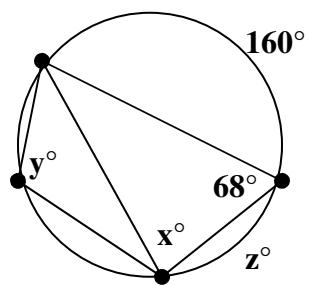


Use the figure above to answer the following.

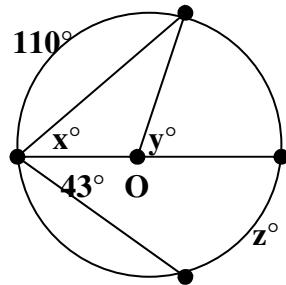
- 30) find the measure of arc ADC

- 31) find the measure of arc BAC

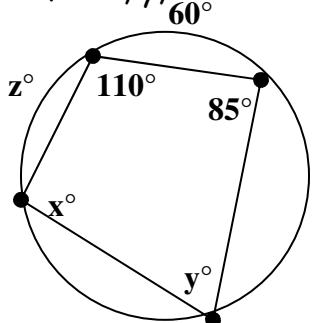
33) solve for x , y , and z



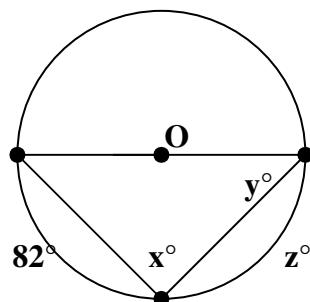
34) solve for x , y , and z



35) solve for x , y , and z



36) solve for x , y , and z



37) measure of arc $DE = \underline{\hspace{2cm}}$

38) $m\angle EBD = \underline{\hspace{2cm}}$

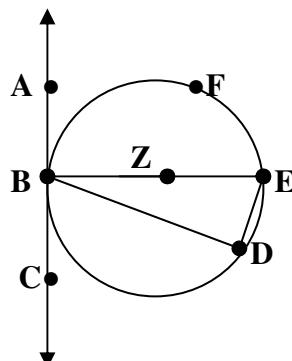
39) measure of arc $DB = \underline{\hspace{2cm}}$

40) $m\angle DEB = \underline{\hspace{2cm}}$

41) $m\angle BDE = \underline{\hspace{2cm}}$

42) measure of arc $BFE = \underline{\hspace{2cm}}$

Given that Z is the center and
 $m\angle DBC = 75^\circ$



Answer Key:

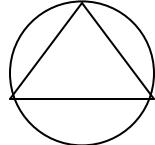
1) \overline{CF} , \overline{DB} 2) \overline{AB} , \overline{AC} , \overline{AD} , and \overline{AF} 3) \overline{DF} , \overline{FB} , \overline{BC} , \overline{CD} , \overline{BD} , \overline{FC}

4) line DE 5) line FC 6) $\angle FAB$, $\angle BAC$, $\angle CAD$, $\angle DAF$

7) \widehat{FB} , \widehat{BC} , \widehat{CD} , \widehat{DF} 8) \widehat{FBC} , \widehat{BCD} 9) \widehat{FBD} , \widehat{BCF} , \widehat{CDB} , \widehat{DFC}

10) D

11)



13) 2 internal, 2 external

14) one external

15) 12

16) 10

18) 55°

19) 25°

20) 60°

21) 3, 9

22) 12

23) 20, 18, 16

24) true

25) true

26) true

27) false

28) true

29) true

30) 270°

31) 315°

33) 80° , 112° , 64°

34) 35° , 70° , 86°

35) 95° , 70° , 80°

36) 90° , 41° , 98°

37) 30°

38) 15°

39) 150°

40) 75°

41) 90°

42) 180°