

Review of Lessons 9-1 through 9-3

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

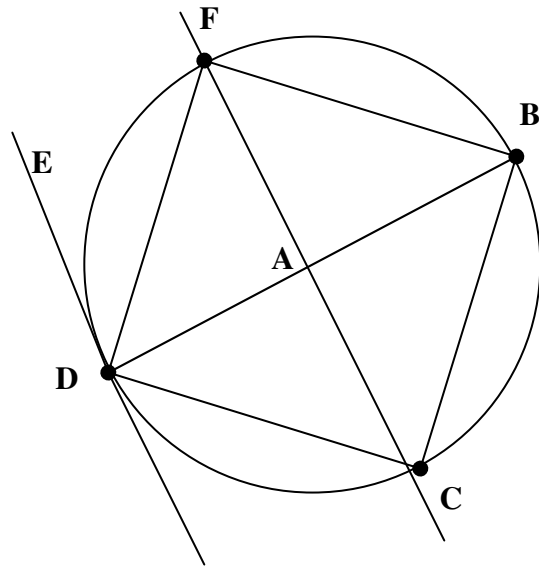
6) name four central angles

7) name four minor arcs

8) name two semi-circles

9) name four major arcs

10) name a point of tangency

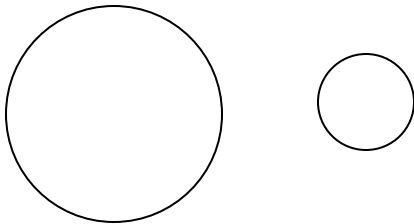


11) Draw a circle with an inscribed isosceles triangle.

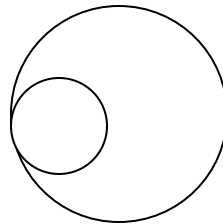
12) Draw a circle with a circumscribed square.

Draw in the common tangents for the following.

13)



14)



Use the diagram of circle O to find the following.

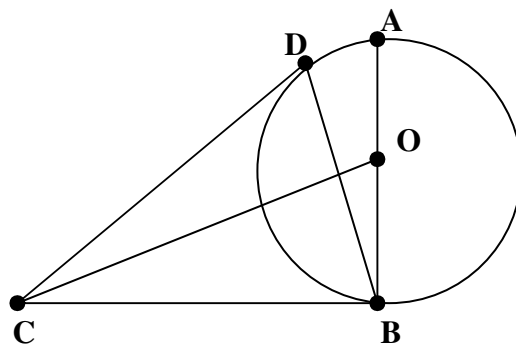
15) If $OC = 15$ and $OB = 9$ then $BC =$

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

17) If $m\angle OCB = 30^\circ$ and $OB = 4$ then $OC =$

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

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

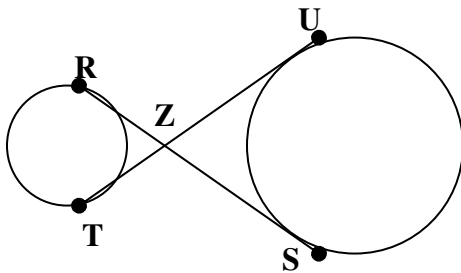


20) At 10:00 the hands of a clock form an angle of _____°

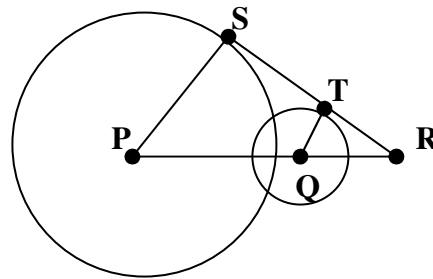
21) If the hands of a clock form an angle of 90°, the time is _____ o'clock or _____ o'clock.

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

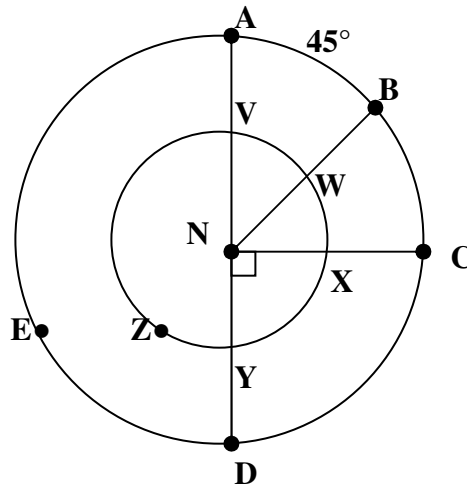
25) $\widehat{AB} \cong \widehat{VW}$

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

Answer Key:

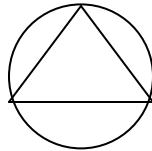
1) $\overline{CF}$, $\overline{DB}$ 2) $\overline{AB}$, $\overline{AC}$, $\overline{AD}$, and $\overline{AF}$ 3) $\overline{DF}$, $\overline{FB}$, $\overline{BC}$, $\overline{CD}$, $\overline{BD}$, $\overline{FC}$

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

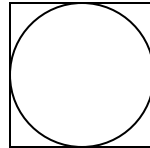
7) $\widehat{FB}$, $\widehat{BC}$, $\widehat{CD}$, $\widehat{DF}$ 8) $\widehat{FBC}$, $\widehat{BCD}$ 9) $\widehat{FBD}$, $\widehat{BCF}$, $\widehat{CDB}$, $\widehat{DFC}$

10) D

11)



12)



13) 2 internal, 2 external

14) one external

15) 12

16) 10

17) 8

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°