

Unit 4A Test Review

Find the measure of the arc or angle indicated. Assume that lines which appear tangent are tangent.

12)

$360 - 240 = 120$
 $180 - 120 = 60^\circ$

13)

$180 - 49 = 131^\circ$
 Central $\angle =$ arc
 $? = 131^\circ$

14)

$66 \times 2 = 132^\circ$

15)

$360 - 230 = 130^\circ$
 $? = 130/2 = 65^\circ$

16)

Inscribed $\angle = \frac{1}{2}$ arc
 $? = \frac{1}{2}(102)$
 $= 51^\circ$

17)

$204 = \widehat{QRS}$
 $204 - 100 = 104 = \widehat{RQ}$
 $85 \cdot 2 = 170 = \widehat{RQL}$
 $? = 170 - 104 = 66^\circ$

18) $\widehat{ABC} = 244^\circ$
 $\widehat{AB} = \frac{244}{2} = 122^\circ$
 $\widehat{BC} = 104^\circ$
 $\widehat{CA} = 140^\circ$
 $\angle BAF = 96.2 = 192$
 $? = 192 - 140 = 52^\circ$

19) 84°
 $\frac{84}{2} = 42^\circ$

20) $58 \times 2 = 116^\circ$
 $? = 180 - 116 = 64^\circ$ (semicircle)

21) $180 - 84 = 96^\circ$
 $\frac{96}{2} = 48^\circ$

Find the measure of the arc or central angle indicated. Assume that lines which appear to be diameters are actual diameters.

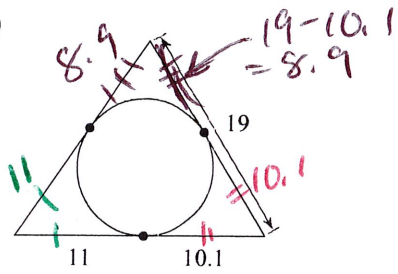
22) $m\angle VSW$
 $180 - 70 - 65 = 45^\circ$

23) $m\angle IDE$
 $180 - 75 = 105^\circ$
 $180 - 60 - 45 = 75^\circ$

24) $m\angle LHJ = 30 + 65 + 40 = 135^\circ$

Find the perimeter of each polygon. Assume that lines which appear to be tangent are tangent.

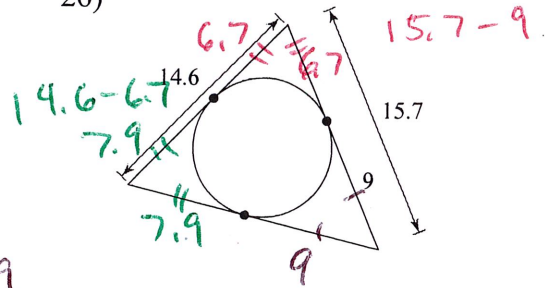
25)



$$P = 19 + 10.1 + 11 + 11 + 8.9$$

$$= 60$$

26)

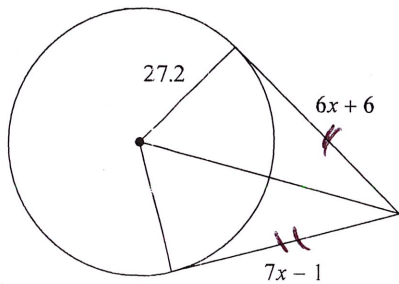


$$P = 14.6 + 15.7 + 9 + 7.9$$

$$= 47.2$$

Solve for x. Assume that lines which appear to be tangent are tangent.

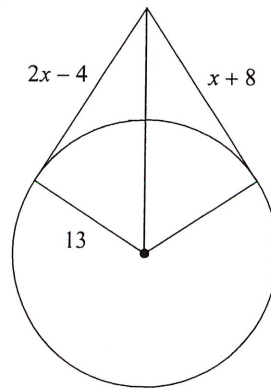
27)



$$6x + 6 = 7x - 1$$

$$\begin{array}{r} -6x \\ \hline 6 = x - 1 \\ +1 \quad +1 \\ \hline 7 = x \end{array}$$

28)

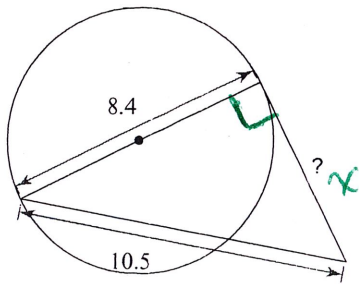


$$2x - 4 = x + 8$$

$$\begin{array}{r} -x \\ \hline x - 4 = 8 \\ +4 \quad +4 \\ \hline x = 12 \end{array}$$

Find the segment length indicated. Assume that lines which appear to be tangent are tangent.

29)



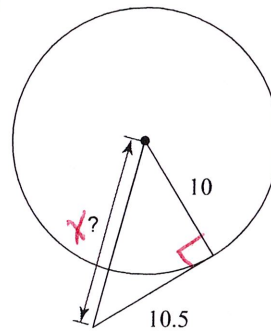
$$x^2 + 8.4^2 = 10.5^2$$

$$x^2 + 70.56 = 110.25$$

$$x^2 = 39.69$$

$$x = 6.3$$

30)



$$10^2 + 10.5^2 = x^2$$

$$100 + 110.25 = x^2$$

$$210.25 = x^2$$

$$14.5 = x$$

