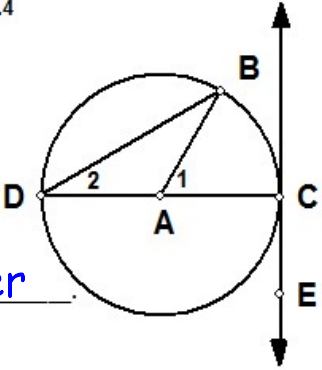


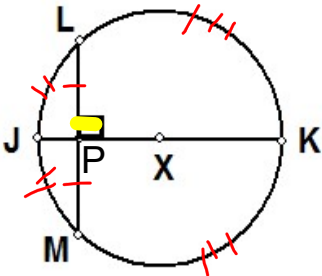
REVIEW CIRCLES Sec. 10.1 - 10.4

FILL IN THE BLANK.

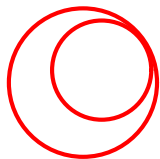


- 1) A is the center of the circle.
- 2) Name a radius. AB, AD, AC
- 3) \overline{DB} is a(n) chord.
- 4) \overleftrightarrow{DB} is a(n) secant.
- 5) \overline{DC} is a(n) chord and a diameter.
- 6) \widehat{BC} is a(n) minor arc.
- 7) \widehat{DBC} is a(n) semicircle.
- 8) \widehat{DCB} is a(n) major arc.
- 9) $\angle 1$ is a(n) central angle
- 10) $\angle 2$ is a(n) inscribed angle.
- 11) ~~\widehat{BC} is the intercepted arc of $\angle 1$ and $\angle 2$.~~
- 12) \overleftrightarrow{CE} is a(n) tangent.
- 13) C is the point of tangency.

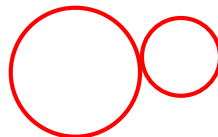
- 14) Name the arc of chord \overline{LM} . \widehat{LM}
- 15) Name the major arc of chord \overline{LM} . \widehat{LKM}
- 16) List 3 things that are congruent. (don't name radii or semicircles)
 - $\overline{LP} \cong \overline{PM}$
 - $\widehat{LJ} \cong \widehat{MJ}$
 - $\widehat{LK} \cong \widehat{MK}$



17) Draw a pair of internally tangent circles.

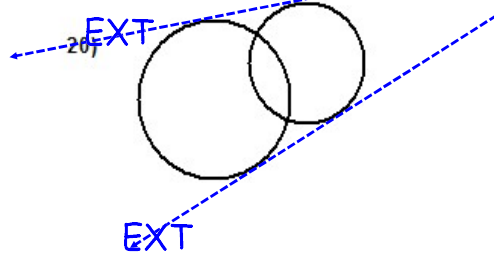
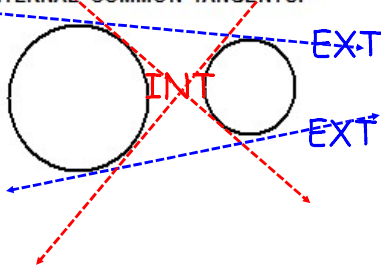


18) Draw a pair of externally tangent circles.



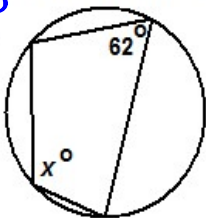
FOR EACH OF THE FOLLOWING, DRAW ALL OF THE COMMON TANGENTS AND LABEL THEM AS EXTERNAL OR INTERNAL COMMON TANGENTS.

19)



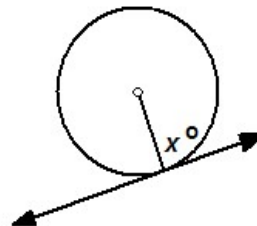
FOR EACH OF THE FOLLOWING, SOLVE FOR X.

21) $x = 118^\circ$



$$\begin{array}{r} 180 \\ -62 \\ \hline 118 \end{array}$$

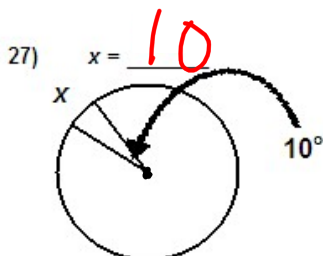
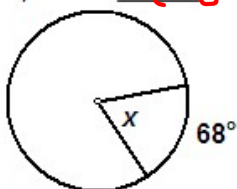
22) $x = 90^\circ$



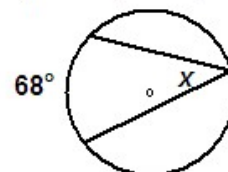
radius and tangent are perpendicular

SOLVE EACH PROBLEM FOR X.

26) $x = 68$



28) $x = 34$

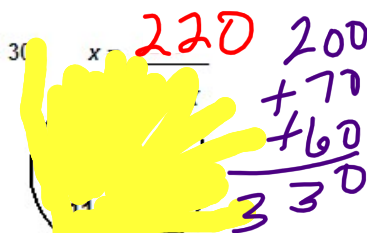


29) $x = 60$



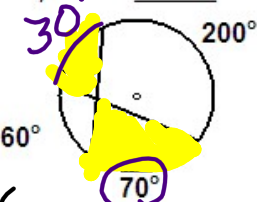
$x = \frac{1}{2} \cdot 120$

$\angle = \frac{1}{2} \text{ arc}$
 $2 \cdot 110 = \frac{1}{2} x \cdot 2$
 $220 = x$



$$\begin{array}{r} 200 \\ + 70 \\ + 60 \\ \hline 330 \end{array}$$

31) $x = 50$



$\angle = \frac{1}{2} (\text{arc 1} + \text{arc 2})$
 $x = \frac{1}{2} (30 + 70)$

32) $x = 70^\circ$

33) $x = 45^\circ$
 $60 = \frac{1}{2}(x + 75)$

34) $x = 27.5$

35) $x = 40$

36) $x = 80$

37) $x = 120$
 $45 = \frac{1}{2}(x - 30)$

$x = \frac{1}{2}(130 - 50)$
 $x = \frac{1}{2}(260 - 100)$
 $\angle = \frac{1}{2}(\text{arc 1} - \text{arc 2})$
 $45 = \frac{1}{2}(x - 30)$
 $90 = x - 30$

38) $x = \frac{12}{5}$
 $5x = 2 \cdot 6$

39) $x = \frac{20}{3}$
 $3x = 4 \cdot 5$

40) $x = \frac{15}{4}$

41) $x = \frac{40}{3}$

42) $x = 2\sqrt{6}$

43) $x = 4$

$w \cdot d = w \cdot d$
 $6x = 16 \cdot 5$
 $\tan = w \cdot d$
 $x^2 = 12 \cdot 2$
 $\sqrt{x^2} = \sqrt{24}$
 $6^2 = 9x$
 $\frac{36}{9} = \frac{9x}{9}$