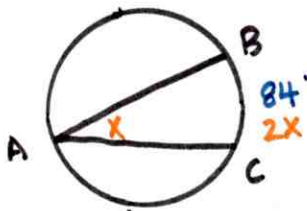


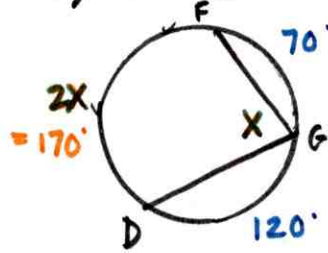
10.4

3) $m\angle A$



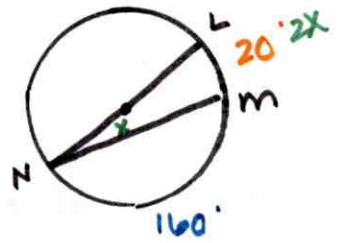
$m\angle A = 84/2$
 $m\angle A = 42^\circ$

4) $m\angle G$



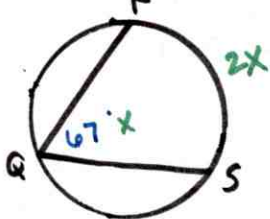
$m\widehat{FD} = 360 - (120 + 70)$
 $= 170^\circ$
 $m\angle G = 170/2$
 $m\angle G = 85^\circ$

5) $m\angle N$



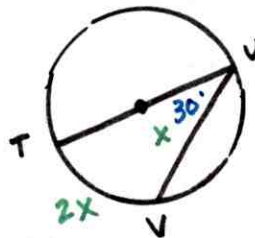
$m\widehat{LM} = 180 - 160$
 $= 20^\circ$
 $m\angle N = 20/2$
 $m\angle N = 10^\circ$

6) $m\widehat{RS}$



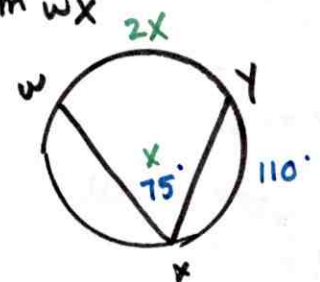
$m\widehat{RS} = 2(67)$
 $m\widehat{RS} = 134^\circ$

7) $m\widehat{VU}$



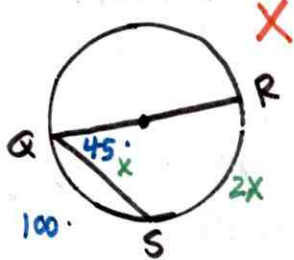
$m\widehat{TV} = 2(30) = 60^\circ$
 $m\widehat{VU} = 180 - 60$
 $m\widehat{VU} = 120^\circ$

8) $m\widehat{WX}$



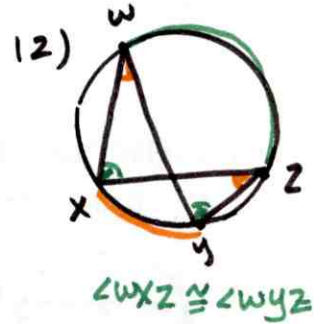
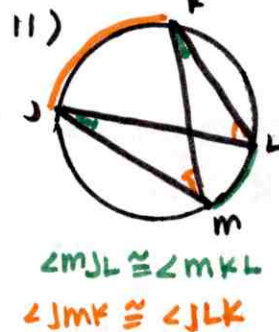
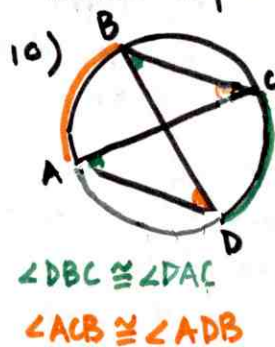
$m\widehat{WY} = 2(75) = 150^\circ$
 $m\widehat{WX} = 360 - (110 + 150)$
 $m\widehat{WX} = 100^\circ$

9) Find 2 ways to correct the error.

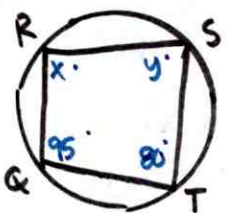


$m\widehat{SR} = 80^\circ$
 $m\angle RQS = 40^\circ$
 $m\widehat{SR} = 90^\circ$
 $m\widehat{QS} = 90^\circ$

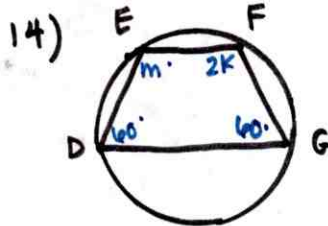
Name 2 pairs of \cong angles.



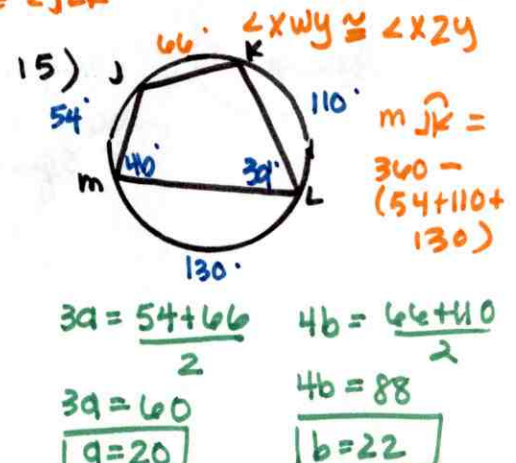
13)



$x + 80 = 180$ $y + 95 = 180$
 $x = 100^\circ$ $y = 85^\circ$



$2k + 60 = 180$ $m + 60 = 180$
 $2k = 120$ $m = 120$
 $k = 60$

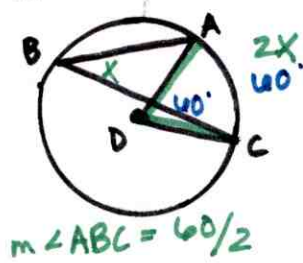


DEFG

14) $\angle ADC$ is a central angle and the $m\angle ADC = 60^\circ$

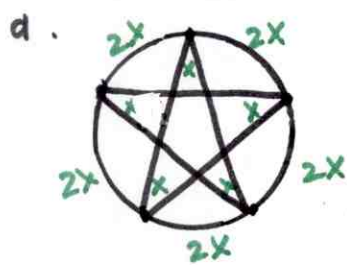
what is the $m\angle ABC$?

- A) 15° B) 30°
 C) 60° D) 120°



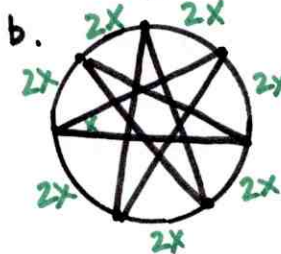
$m\angle ABC = 60/2$

15) Find the measure of each inscribed angle and their sum. All \cong .



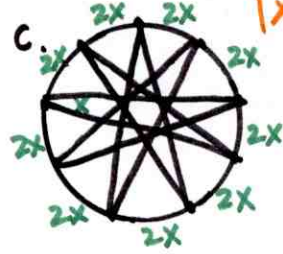
$x = 36$
 sum = $5(36)$
 $= 180$

$5(2x) = 360$
 $10x = 360$
 $x = 36$



$x = 25.7$
 sum = $7(25.7)$
 $= 180$
 ≈ 179.9

$7(2x) = 360$
 $14x = 360$
 $x = 25.7$

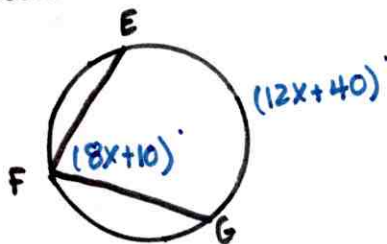


$x = 20$
 sum = $9(20)$
 $= 180$

$9(2x) = 360$
 $18x = 360$
 $x = 20$

18) what is the value of x ?

- A) 5 B) 10
 C) 13 D) 15

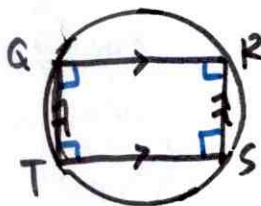


$8x + 10 = \frac{12x + 40}{2}$
 $8x + 10 = 6x + 20$
 $2x = 10$
 $x = 5$

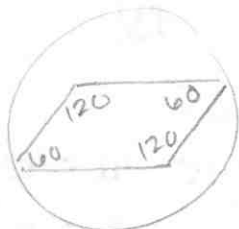
Determine whether the quadrilateral can always be inscribed in a circle. Explain.

- 20) Square Yes opp. \angle s supp.
 21) Rectangle Yes opp. \angle s supp.
 22) // - gram No opp. \angle s are not always supp.
 23) Kite No opp. \angle s are not always supp.
 24) Rhombus No opp. \angle s not always supp.
 25) Isosceles Trapezoid Yes opp. \angle s supp.

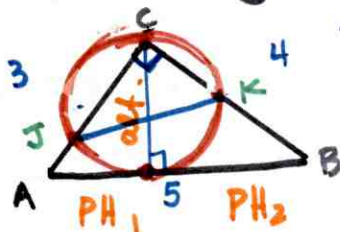
19) Parallelogram QRST is inscribed in $\odot C$. Find $m\angle R$. 90°



$Q + S = 180$
 $R + T = 180$
 // - grams must be a rectangle or square



24) $\angle C$ is a \perp . If you draw the smallest possible circle through C and tangent to AB , the circle will intersect AC at J and BC at K . Find the exact length of JK .



$3^2 = PH_1(5)$ $PH_2 = 5 - 9/5$
 $9 = PH_1(5)$ $PH_2 = 16/5$
 $PH_1 = 9/5$ 3.2
 1.8

JK is a diameter b/c $\angle C = 90^\circ$ (Rt. Δ inscribed)
 The altitude from C to AB is a diameter

$\sqrt{alt^2} = \sqrt{(\frac{9}{5})(\frac{16}{5})}$
 $alt = \sqrt{\frac{144}{25}}$
 $alt = 12/5 \rightarrow JK = 12/5$