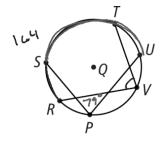
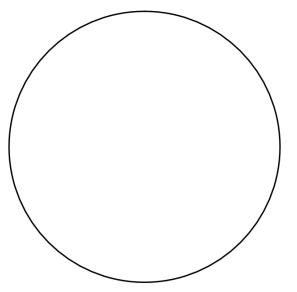
2. a. If
$$\widehat{mRST} = 164$$
, what is $m\angle RVT$?

Enter vour answer.



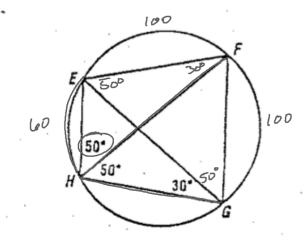
b. If
$$m\angle SPU = 79$$
, what is \widehat{mSTU} ? = $/5$ %

Two inscribed angles that intercept the same arc are congruent.



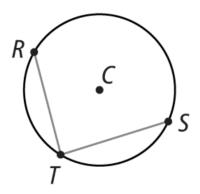
For questions 11-15, use the figure below. Find each measure.

- 11. m \widehat{FG}
- 12. m∠FEG
- 13. m \widehat{EH}
- 14. m∠EFH
- 15. m∠*FGE*



An angle inscribed in a semicircle is a right angle.

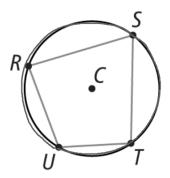
If...
$$\widehat{mRS} = 180$$



Then... $m \angle T = 90$

The opposite angles of an inscribed quadrilateral are supplementary.

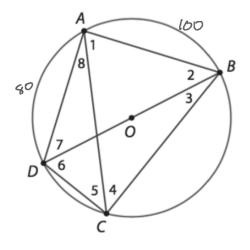
If...



Then...
$$m \angle R + m \angle T = 180$$

 $m \angle S + m \angle U = 180$

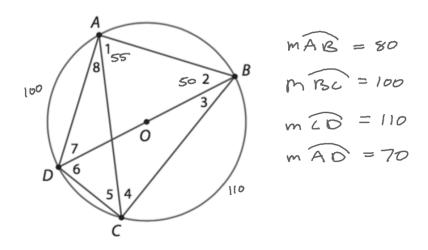
In the diagram below, \overline{BD} is a diameter of the circle with center O. Points A, B, C, and D are on the circle.



$$m2 = 40^{\circ}$$
 $m2 = 40^{\circ}$ $m2 = 50^{\circ}$ $m2 = 50^{\circ}$

If measure of arc AB = 100° , find the measure of as many possible numbered angles as possible.

In the diagram below, \overline{BD} is a diameter of the circle with center O. Points A, B, C, and D are on the circle.



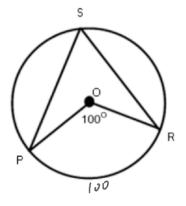
Given the two measures $m \angle 1 = 55^{\circ}$ and $m \angle 2 = 50^{\circ}$, find the measures of the four minor arcs AB, BC, CD, and DA.

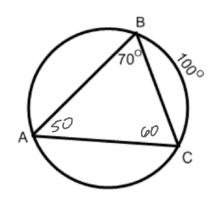
4)
$$m \angle POR = 100^{\circ}$$

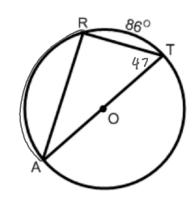
 $\widehat{mPR} = 100$
 $m \angle PSR = 50$

5)
$$m\angle ABC = 70^{\circ}$$
, $mBC = 100^{\circ}$
 $m\widehat{AC} = |\forall O \quad m\angle C = |\langle O \rangle$
 $m\angle A = |SO \quad m\widehat{AB} = |\lambda O \rangle$

6)
$$\overline{AT}$$
 is a diameter,
 $\widehat{mRT} = 86^{\circ}$
 $m\angle A = 43^{\circ}$ $m\angle R = 90^{\circ}$
 $m\angle T = 47$ $\widehat{mAR} = 94$

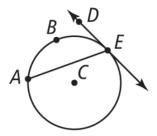




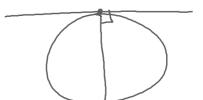


The measure of an angle formed by a tangent and a chord is half the measure of its intercepted arc.

If...

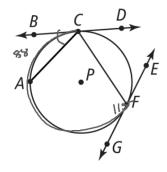


Then...
$$m\angle AED = \frac{1}{2}m\widehat{ABE}$$



3. a. Given \overrightarrow{BD} tangent to $\odot P$ at point C, if $\overrightarrow{mAC} = 88$, what is $\overrightarrow{m} \angle ACB$? = 44

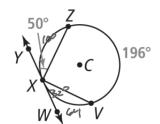
Enter your answer



b. Given \overrightarrow{EG} tangent to $\odot P$ at point F, if $m \angle GFC = 115$, what is \widehat{mFAC} ?

4. a. Given \overrightarrow{WY} tangent to $\odot C$ at point X, what is \widehat{mXZ} ?

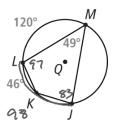
Enter your answer



b. What is $m \angle VXW$?

5. In $\bigcirc Q$, find $\widehat{mJL} = \mathbb{R}^{p}$

Enter your answer.



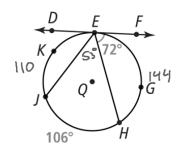
In $\bigcirc Q$, find \widehat{mMJ} . = 142

In $\bigcirc Q$, find $m \angle KJM$. = $\otimes >$

In $\bigcirc Q$, find $m \angle KLM$.

9. Line *DF* is tangent to $\bigcirc Q$ at point *E*. Find \widehat{mEH} .

Enter your answer

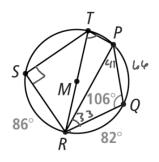


- **10.** Line *DF* is tangent to $\bigcirc Q$ at point *E*. Find \widehat{mEJ} .
- **11.** Line *DF* is tangent to $\bigcirc Q$ at point *E*. Find $m \angle HEJ$.

12. Line *DF* is tangent to $\bigcirc Q$ at point *E*. Find $m \angle DEJ$.

13. In $\bigcirc M$, find $m \angle PRQ$.

Enter your answer



14. In **⊙***M*, find *m*∠*PTR*. = **7**4

15. In $\bigcirc M$, find $m \angle RST$. = 90°

16. In $\bigcirc M$, find m ∠ SRT.

