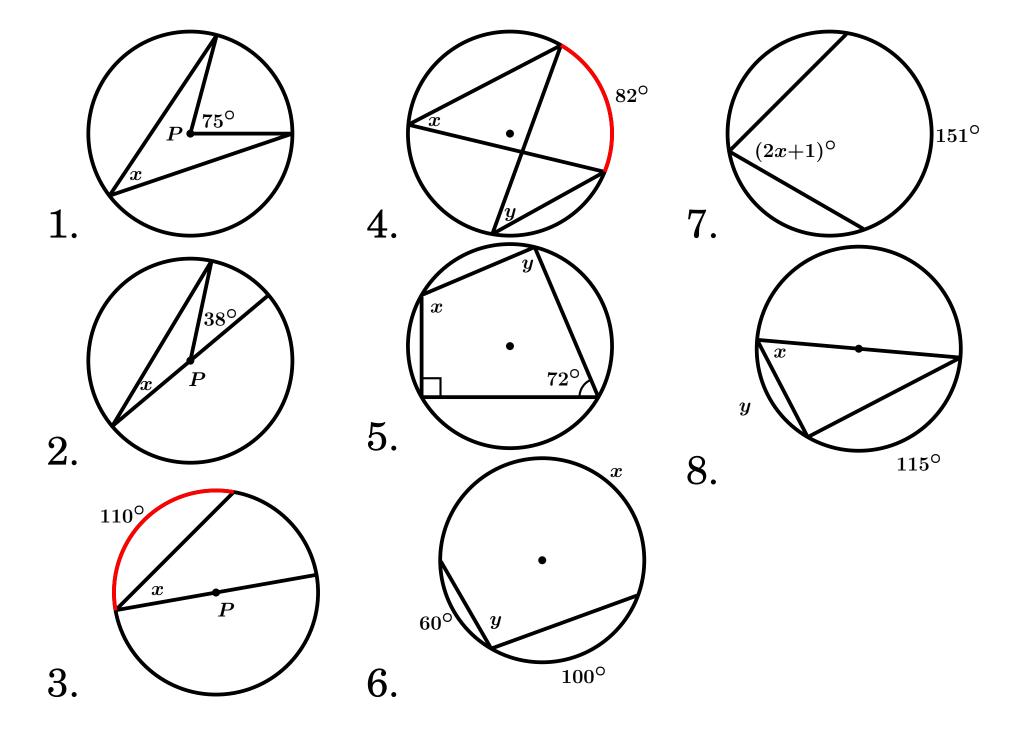
Practice Exercises

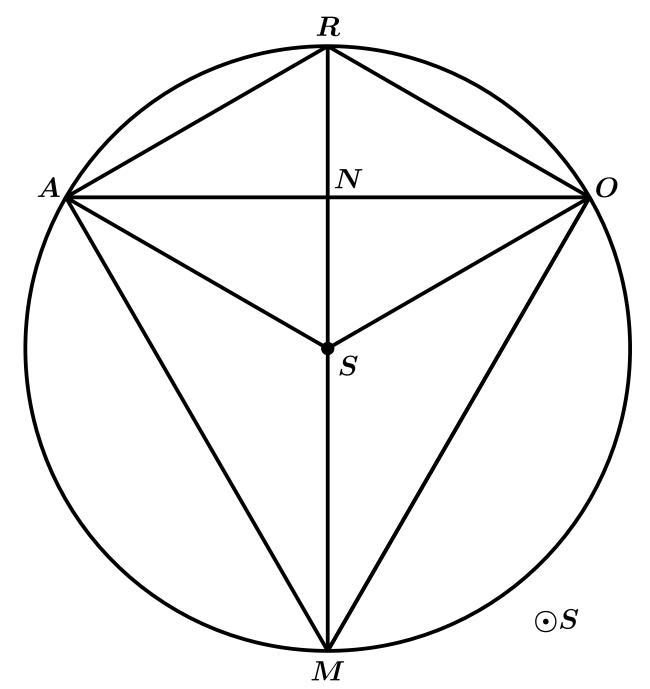
- A. Refer to the figure on the right to answer the following.
 - 1. Name the angles that intercept \widehat{AP} .
 - 2. Name the angles that intercept \widehat{EV} .
 - 3. Name the arc that is intercepted by ∠PAE.
 - 4. Name the arc that is intercepted by ∠EVP.
 - 5. If $m\angle PEA = 48$, then mAP =__ and $m\angle AVP =$
 - $6.m \angle EPA =$
 - $7. m \angle EVP + m \angle PVA =$ ____
 - 8. If $m \angle VEP = 100$, then $m \angle PAV = _$.

B. Use the given figures to find the value of x and y.



C. Given $\odot S$, $\overline{AR} \cong \overline{RO} \cong \overline{OS} \cong \overline{SA}$, $m \angle AMR = 3x + 20$ and $m \angle OMR = x + 30$. Find each measure.

- 1.x
- $2.m \angle AMR$
- $3.m \angle ORM$
- 4. *m*AM
- $5.m \angle RNO$
- $6.m \angle RAM$
- 7. mAR
- 8.mOM
- $9.m \angle ROM$
- $10. \, m \angle AMO$



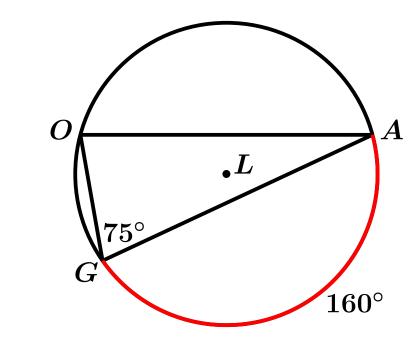
Problem Set

Use the given figures to answer the following.

A. $\triangle GOA$ is inscribed in $\bigcirc L$. If $m \angle OGA = 75^{\circ}$ and

 $m\widehat{AG} = 160^{\circ}$, find:

- $1. m\widehat{OA}$
- 2.mOG
- $3.m \angle GOA$
- $4. m \angle GAO$



- B. In $\odot F$, \overline{AB} , \overline{BC} , \overline{CD} , \overline{BD} , and \overline{AC} are chords. Use the figure and the given information to answer the following questions.
 - 1. If $m \angle CBD = 54^{\circ}$, what is mCD?
 - 2. If $mAB = 96^{\circ}$, what is $m \angle ACB$?

- 3. If $m \angle ABD = 5x + 3$, and $m \angle DCA = 4x + 10$, find:
 - $\mathbf{a}.\,\mathbf{x}$
 - b. $m \angle ABD$
 - $c.m \angle DCA$
 - d. mAD
- 4. If $m \angle BDC = 6x 4$, and $\widehat{mBC} = 10x + 2$, find:
 - $\mathbf{a}.\,\mathbf{x}$
 - b. $m \angle BDC$
 - c. mBC
 - $\mathrm{d.}\,m \angle BAC$

