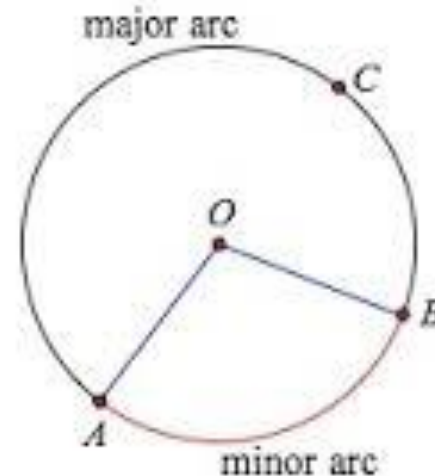
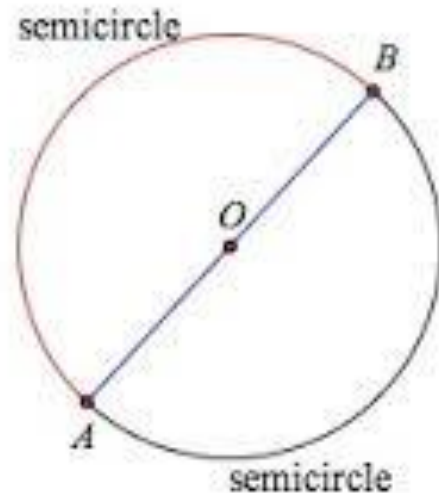




10.2 FIND ARC MEASURES

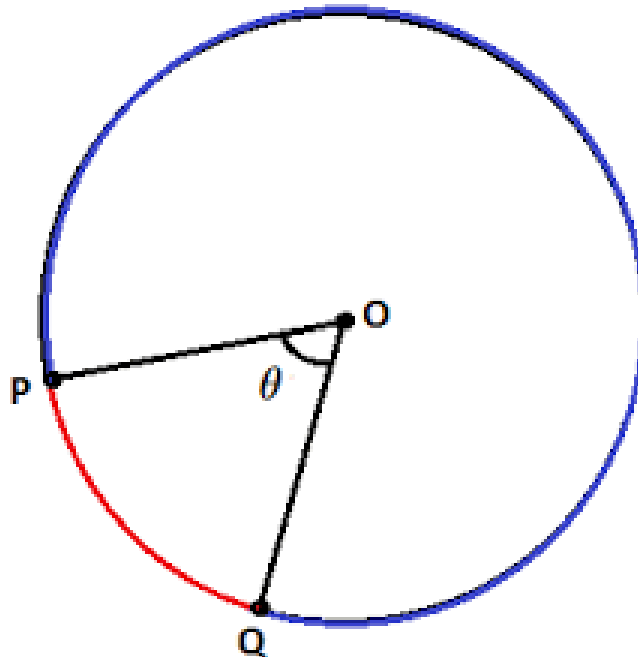
CENTRAL ANGLE

- An angle whose _____ is on the _____.
- A central angle divides the _____ of the _____ into _____:
 - Minor Arc: If the central angle is _____
 - Major Arc: If the central angle is _____
 - Semicircle: If the central angle is _____



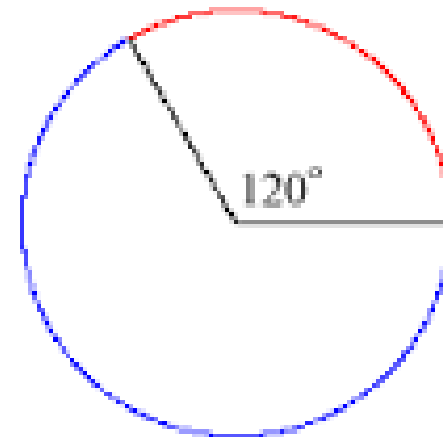
NAMING ARCS

- Minor arcs – named with their _____
- Major arcs and semicircles – named with their _____ and one other _____



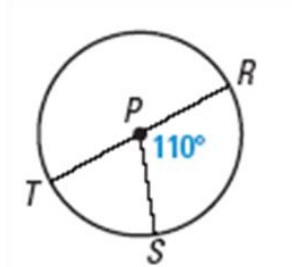
MEASURING ARCS

- The _____ of a _____ arc is the _____ of its _____.
- The _____ of a _____ arc is _____.
 - Whole circle is _____
 - Semicircle is _____



EX:

Find the measure of each arc of $\odot P$, where \overline{RT} is a diameter.



a. \widehat{RS}

b. \widehat{RTS}

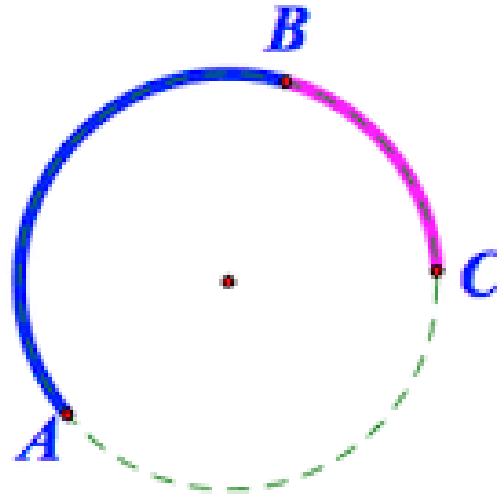
c. \widehat{RST}



ARC ADDITION POSTULATE

- Touching _____ can be _____
or _____ to equal a

$$m\widehat{ABC} = m\widehat{AB} + m\widehat{BC}$$

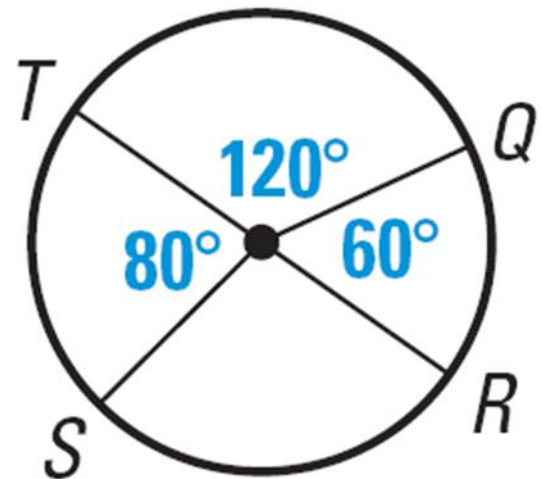


EX: IDENTIFY THE GIVEN ARC AS A MAJOR ARC, MINOR ARC, OR SEMICIRCLE, AND FIND THE MEASURE OF THE ARC.

1. \widehat{TQ}

2. \widehat{QRT}

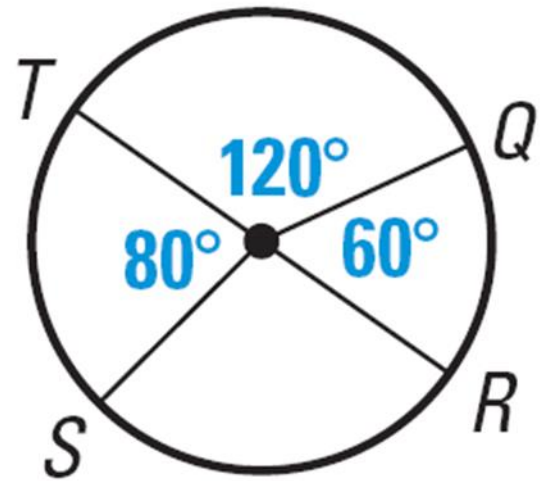
3. \widehat{TQR}



4. \widehat{QS}

5. \widehat{TS}

6. \widehat{RST}



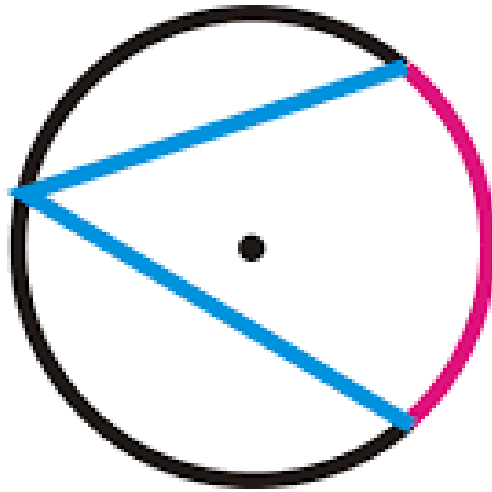


10.4 INSCRIBED ANGLES AND POLYGONS

INSCRIBED ANGLE

- An angle _____ of a _____
- Vertex is _____
- Sides of the angle are _____
- Sides of the angle form an _____ on the _____.

inscribed
angle

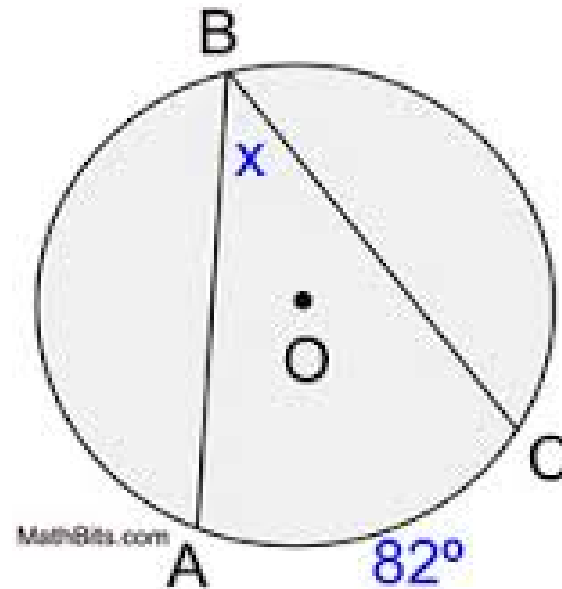
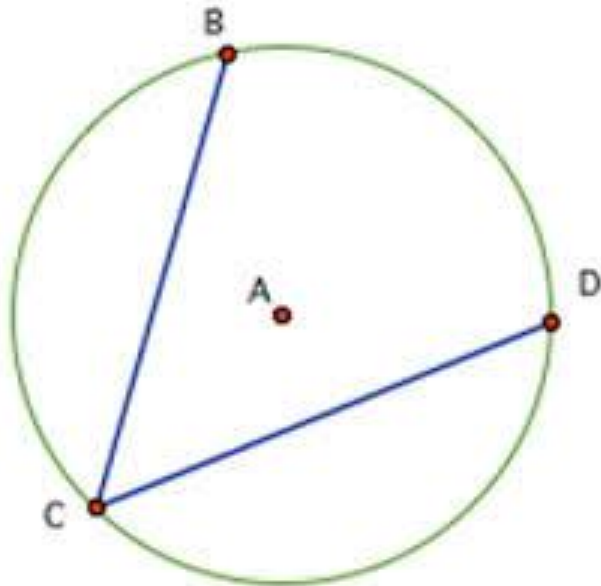


intercepted
arc



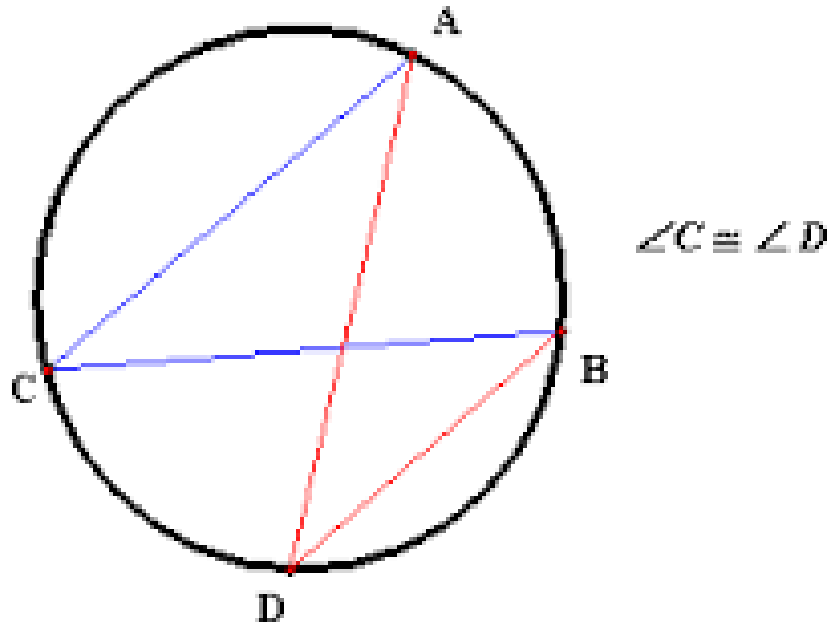
MEASURE OF AN INSCRIBED ANGLE

- The measure of an _____
is _____ of the _____.

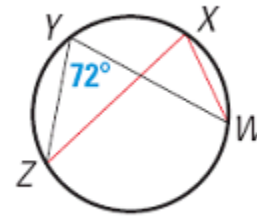
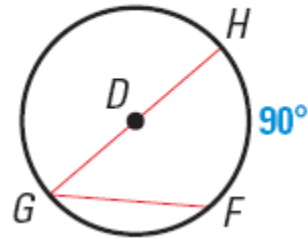
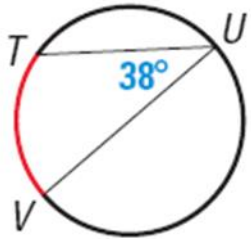


TWO INSCRIBED ANGLES

- If two inscribed angles _____ the _____, then the angles are _____.

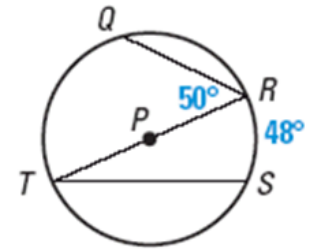


EX: FIND THE MEASURE OF THE RED ARC OR ANGLE



EX:

Find the indicated measure in $\odot P$.

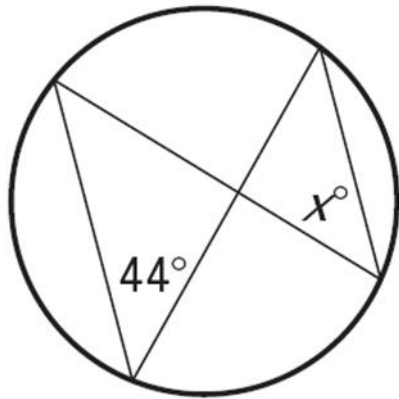


a. $m\angle T$

b. $m\widehat{QR}$



EX: FIND THE VALUE OF X.



EX: STANDARDIZED TEST PRACTICE

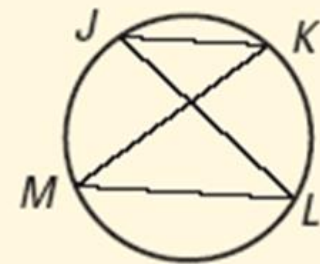
Name two pairs of congruent angles in the figure.

Ⓐ $\angle JKM \cong \angle KJL$,
 $\angle JLM \cong \angle KML$

Ⓑ $\angle JLM \cong \angle KJL$,
 $\angle JKM \cong \angle KML$

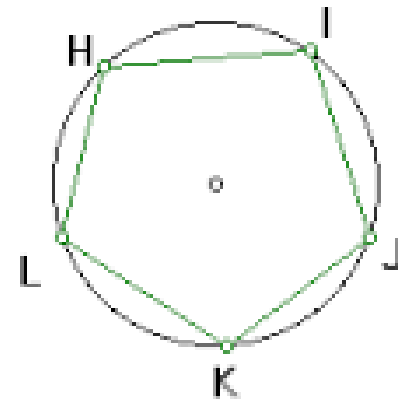
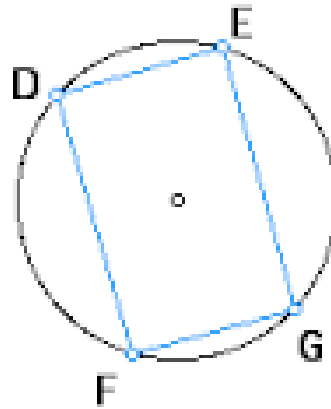
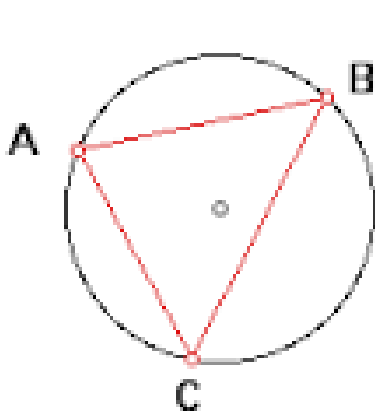
Ⓒ $\angle JKM \cong \angle JLM$,
 $\angle KJL \cong \angle KML$

Ⓓ $\angle JLM \cong \angle KJL$,
 $\angle JLM \cong \angle JKM$



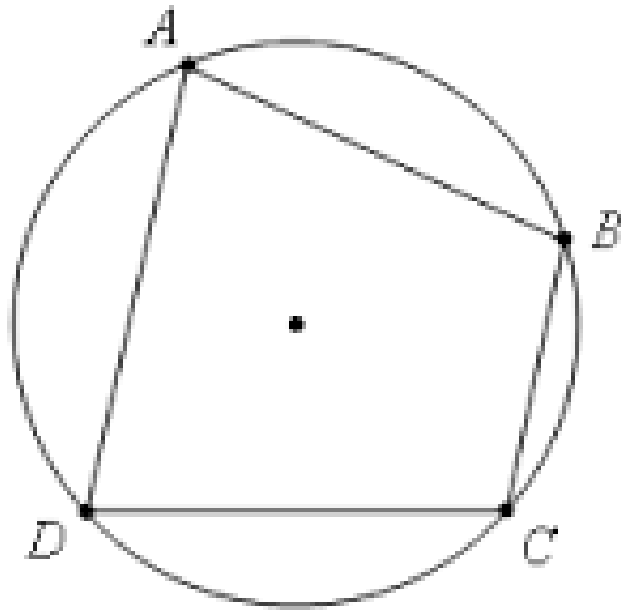
INSCRIBED POLYGONS

- A polygon that is _____ of a circle, with all of its _____ on the circle.
- The circle that contains the _____ is a _____.



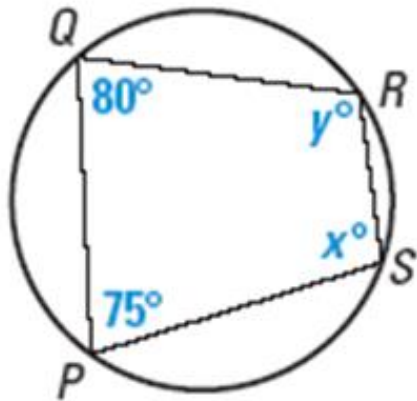
INSCRIBED QUADRILATERALS

- A quadrilateral can be _____ in a circle if and only if its _____ are _____.



EX: FIND THE VALUE OF EACH VARIABLE.

a.



EX: FIND THE VALUE OF EACH VARIABLE.

b.

