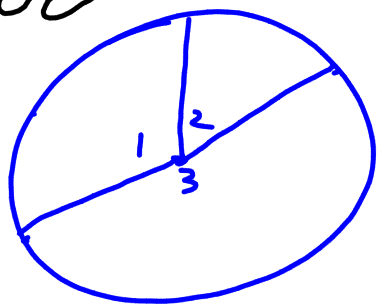
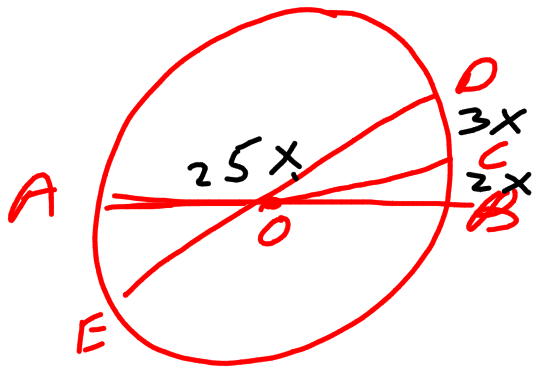


10-2] Angles and Arcs

The sum of the measures of interior angles is 360°



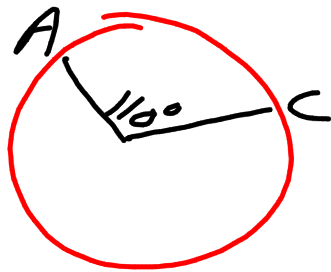
$$\angle 1 + \angle 2 + \angle 3 = 360^\circ$$



Find
 $m\angle AOD$

minor arc / measure of the central angle is less than 180°

Minor arcs named with 2 letters



$$m\widehat{AC} = 110^\circ$$

The measure of the arc
= the measure of the
central angle.

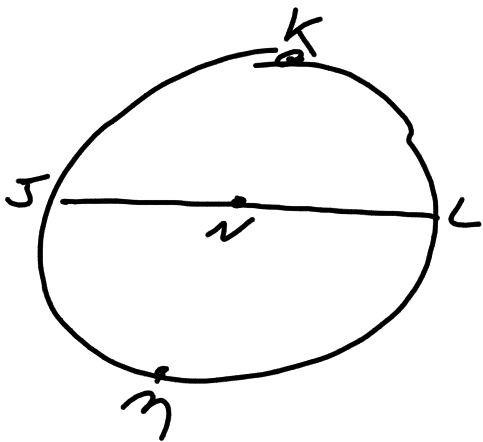
Major Arc

measure is greater than 180° and less than 360°

Named with 3 letters



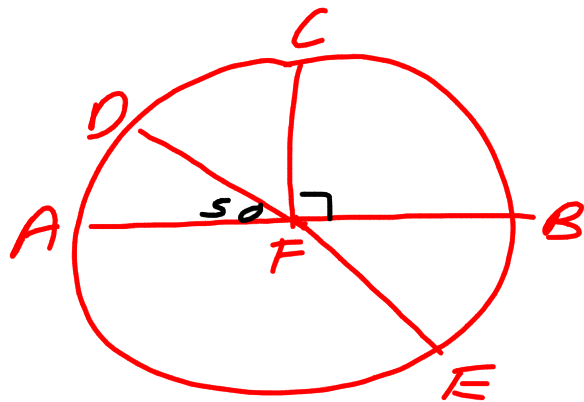
Semicircle = 180°
Named with 3 letters



$$m \text{ JML} = 180^\circ$$

2 arcs are congruent
if their central angles
are congruent.

An arc formed by 2
adjacent arcs = the sum
of the 2 arcs.

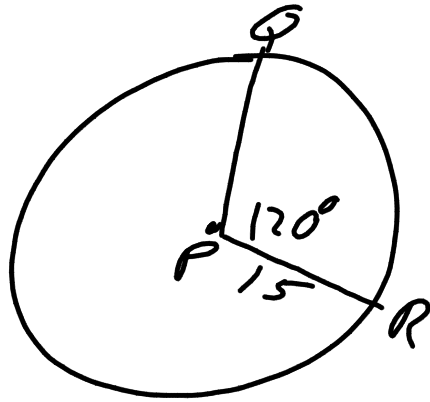


⊙F, $m\angle DFA = 50^\circ$ and $CF \perp AB$

Find:

- Ⓐ $m\widehat{BE}$ Ⓑ $m\widehat{CE}$ Ⓒ $m\widehat{ACE}$

See Ex 3, p. 531



$OP, \overline{PR} = 15$ and $\angle QPR = 120^\circ$
Find the length of \widehat{QR}

QR is part of the circumference ($2\pi r$)

$$C = 2\pi(15) = 30\pi$$

$$m\widehat{QR} = \frac{120^\circ}{360^\circ} = \frac{1}{3}$$

$$m\widehat{QR} = \frac{1}{3} (30\pi) = \textcircled{10\pi}$$

circumference