



James Madison
HIGH SCHOOL

Central Angles



Central Angle :

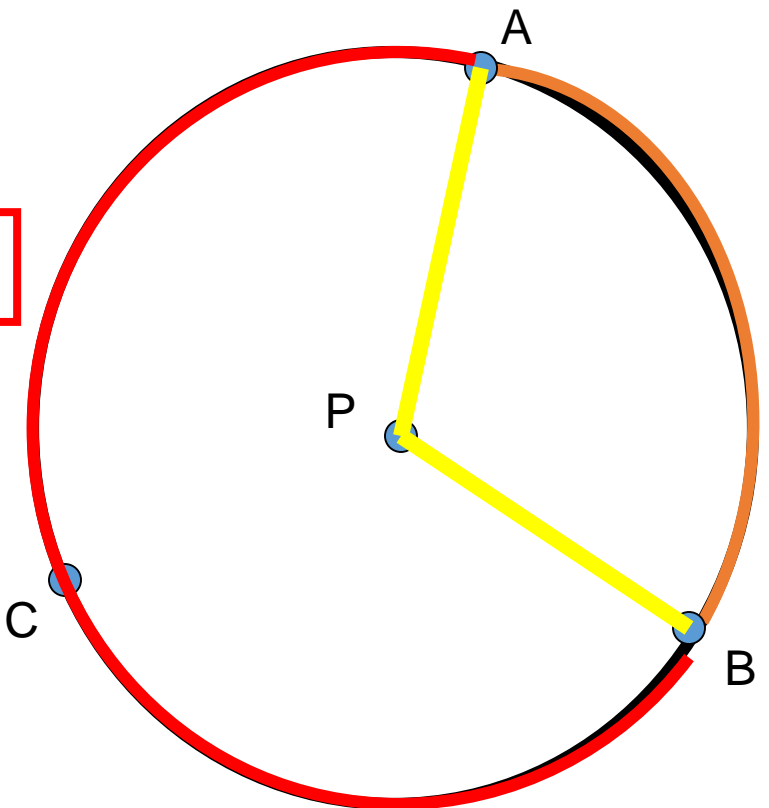
An Angle whose vertex is at the **center** of the circle

Major Arc

More than 180°

\widehat{ACB}

To name: use
3 letters



Minor Arc

Less than 180°

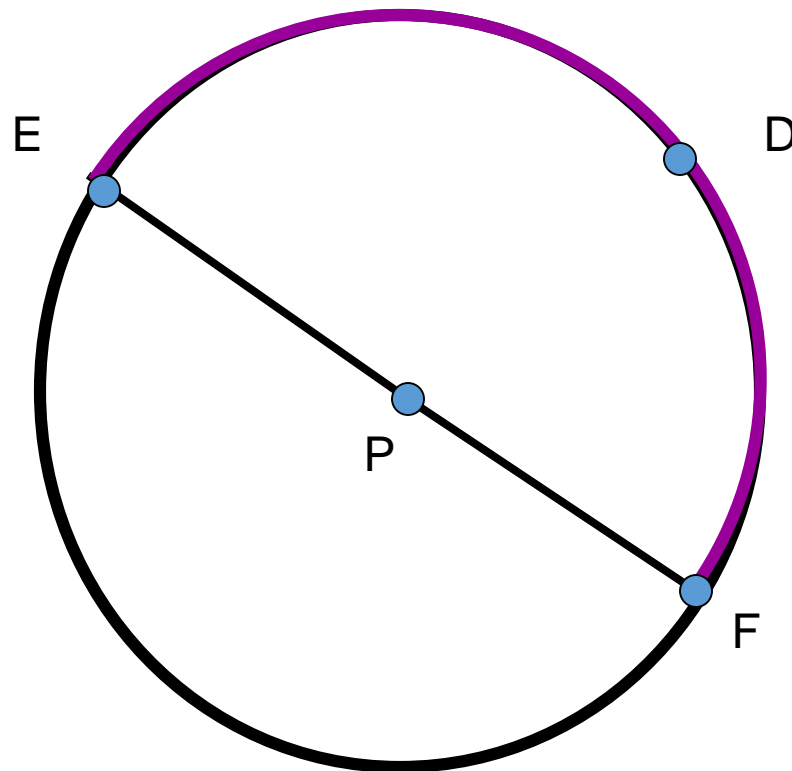
\widehat{AB}

To name: use
2 letters

$\angle APB$ is a Central Angle



Semicircle: An Arc that equals 180°



To name: use
3 letters

\widehat{EDF}



A circle has 360 degrees

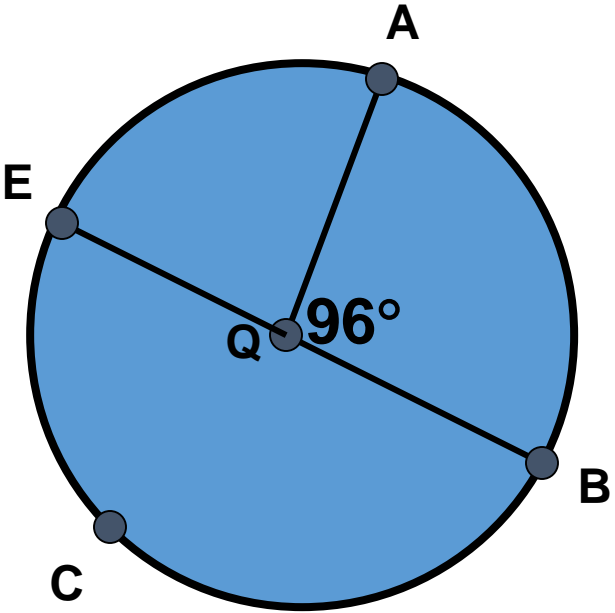
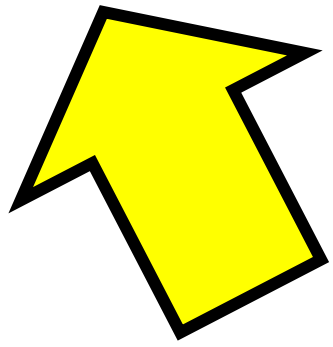
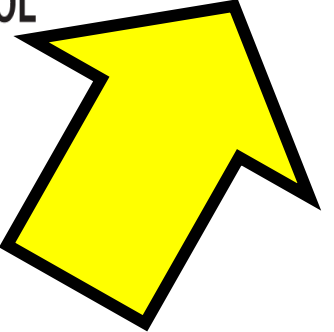
A semicircle has 180 degrees

Vertical Angles are Equal

Linear Pairs are Supplementary



measure of an arc = measure of central angle



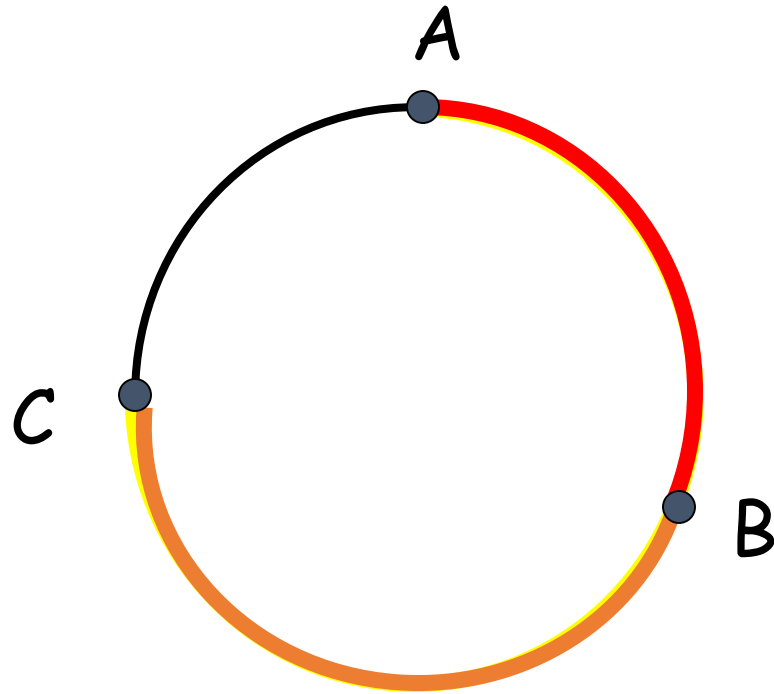
$$m \widehat{AB} = 96^\circ$$

$$m \widehat{ACB} = 264^\circ$$

$$m \widehat{AE} = 84^\circ$$



Arc Addition Postulate



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

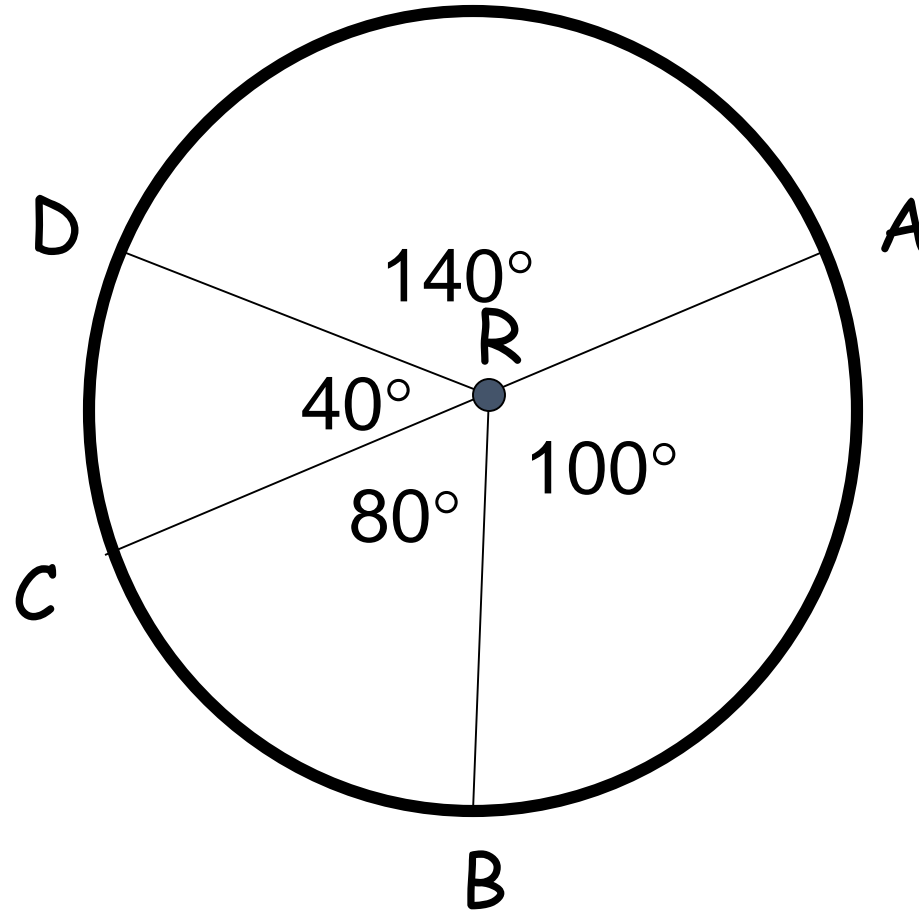


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Tell me the measure of the following arcs.

$$m \widehat{DAB} = 240^\circ$$

$$m \widehat{BCA} = 260^\circ$$





CONGRUENT ARCS

Congruent Arcs have the same measure and **MUST** come from the same circle or of congruent circles.

