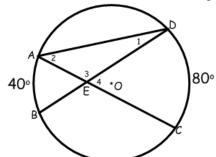
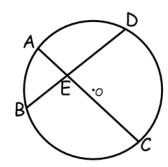
Aim: What are some chord/angle relationships?

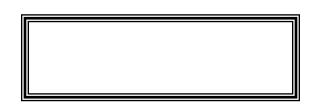
Do Now: Find the measure of the following angles:



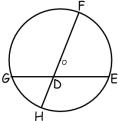
- <1=
- <2=
- <3=
- <4=

Angle Formed Inside of a Circle by Two Intersecting Chords

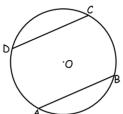




- 1. If the m \widehat{AB} = 50° and m \widehat{DC} = 100°, what is the measure of < AEB?
- 2. If the measure of <a>FDE is 83° and the measure of \widehat{FE} is 124°, what is the measure of \widehat{GH} ?



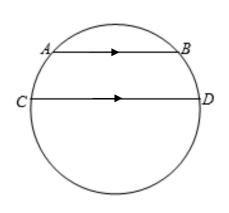
In circle O, chords AB and CD are congruent. What can we say about \widehat{AB} and \widehat{DC} ?

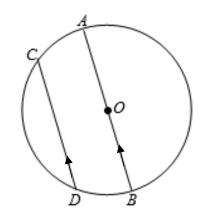


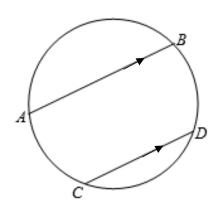


If chords AB and CD are parallel, what can we say about \widehat{AD} and \widehat{CB} ?

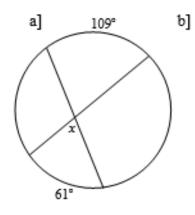


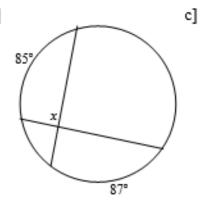


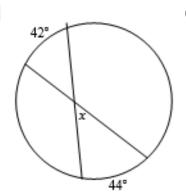


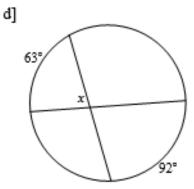


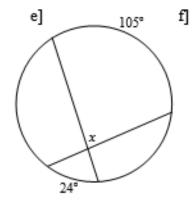
2. Find the value of x:

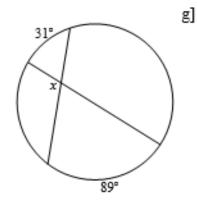


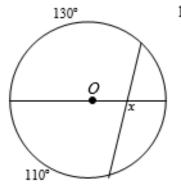


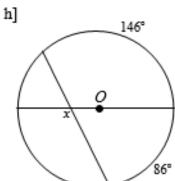


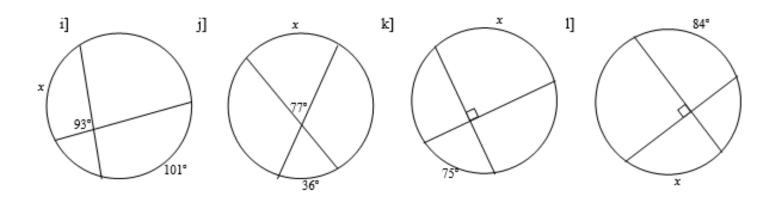




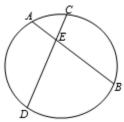




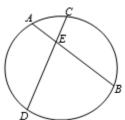




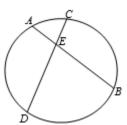
- 3) Chords \overline{AB} and \overline{CD} of the circle intersect at $\it E$.
 - a] If $\widehat{mCB} = 120^{\circ}$, and $\widehat{mAD} = 130^{\circ}$, find $\widehat{m\angle AED}$.



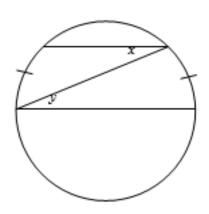
b] If $\widehat{mAC} = 30^{\circ}$, and $\widehat{m\angle AEC} = 55^{\circ}$, find \widehat{mBD} .



c] If $m\angle AED = 80^{\circ}$, and mCB : mDA = 3:5, find mDA.



4. Are angles x and y congruent? If so, how do you know?



5. Find the missing angle/arc indicated

