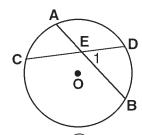
CC Geometry Homework

Intersecting Chords

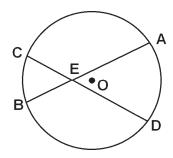
Questions 1 and 2 refer to the following:

In circle O below, chords \overline{AB} and \overline{CD} intersect at E.



1) If $\widehat{\text{mAC}} = 30^{\circ}$ and $\widehat{\text{mDB}} = 50^{\circ}$, what is $\widehat{\text{m}} \angle 1$?

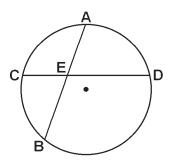
3) In the accompanying diagram, chords \overline{AB} and \overline{CD} intersect at E.



If $\widehat{\text{mAD}} = 70^{\circ}$ and $\widehat{\text{mBC}} = 40^{\circ}$, find m $\angle AED$.

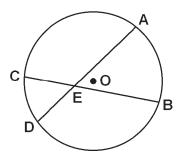
2) If $m \angle 1 = 50^{\circ}$ and $\widehat{mAC} = 40^{\circ}$, what is \widehat{mDB} ?

4) In the accompanying diagram, chords \overline{AB} and \overline{CD} intersect in the circle at E.



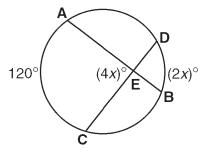
If $\widehat{\text{mBC}} = 60^{\circ}$ and $\widehat{\text{mAD}} = 80^{\circ}$, find $\widehat{\text{m}} \angle \text{AEC}$.

5) In the accompanying diagram of circle O, $\widehat{\text{mAB}} = 64^{\circ}$ and $\widehat{\text{m}} \angle \text{AEB} = 52^{\circ}$.



What is the measure of \widehat{CD} ?

6) In the diagram below, chords \overline{AB} and \overline{CD} intersect at E.



If $m\angle AEC = (4x)^{\circ}$, $\widehat{mAC} = 120^{\circ}$, and $\widehat{mDB} = (2x)^{\circ}$, what is the value of x?