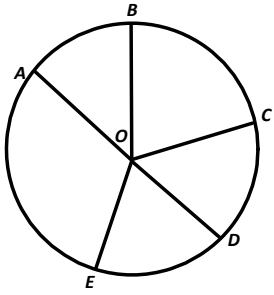
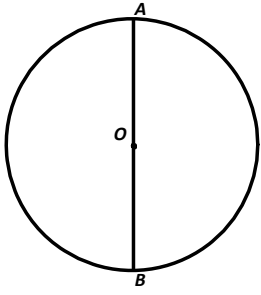


Arcs and Chords

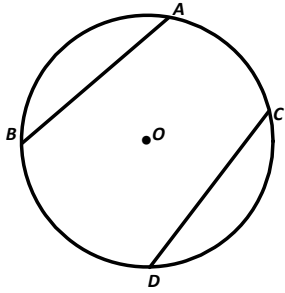


The sum of the measures of the central angles of a circle is 360° .

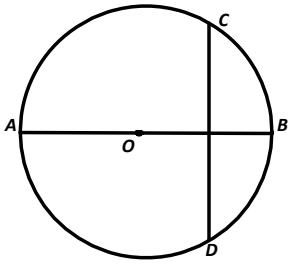
The sum of the measures of the arcs of a circle is 360° .



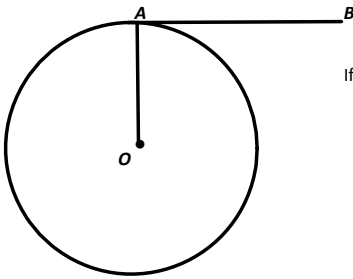
There are 180° in a semicircle.



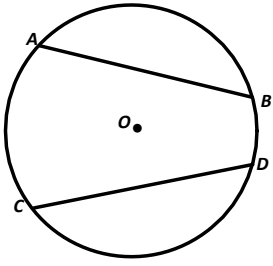
Minor arcs are congruent if their corresponding chords are congruent.



If a diameter or radius is perpendicular to a chord, then it bisects the chord and its arc.



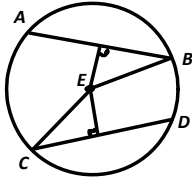
If a line is tangent to a circle then it is perpendicular to its radius.



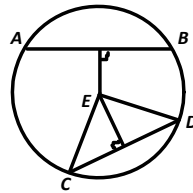
Two chords are congruent if and only if they are equidistant from the center.

1. Find the value of each.

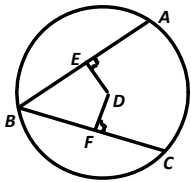
a) $m\angle ECD = 25^\circ$
 $m\angle EBA =$



b) $m\angle ECD = 35^\circ$
 $m\widehat{AB} =$

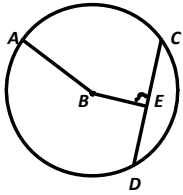


c) $\overline{AB} = 36$
 $\overline{BF} =$

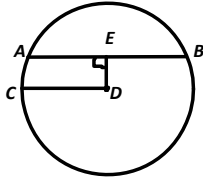


2. Find the value of x and round your answer to the nearest tenth.

- a) $AB = 10$
 $CD = 10$
 $BE = x$



- b) $ED = 5$
 $CD = 13$
 $AB = x$



- c) $AB = 2$
 $CD = 5$
 $BD = x$

