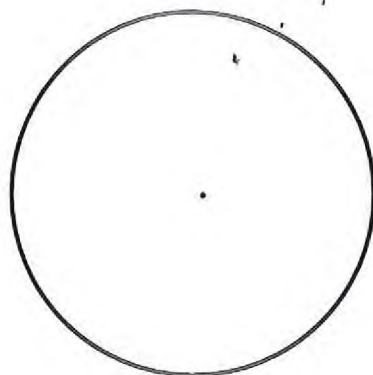
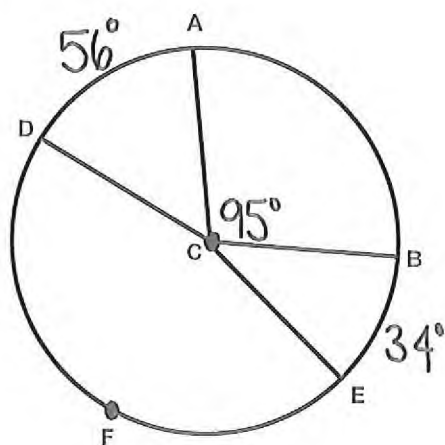


Central Angles Conjecture

The measure of an arc formed by two adjacent arcs is the sum of the measures of the two arcs and the measure of a minor arc is the measure of its central angle.



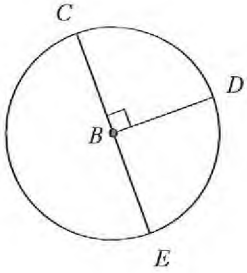
Example



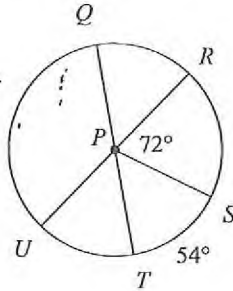
- Find the measure of \widehat{AB} .
- Find the measure of angle DCA.
- Find the measure of \widehat{DAB} .
- Find the measure of \widehat{DFE} .

Find the measure of the arc or central angle indicated. Assume that lines which appear to be diameters are actual diameters.

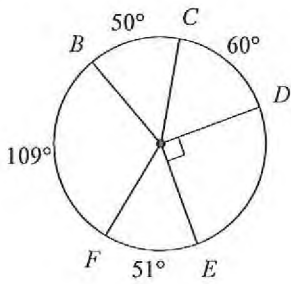
1) $m\angle DBE$



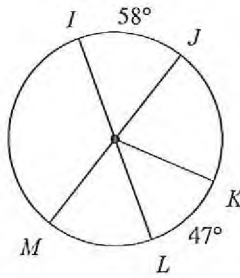
2) $m\angle RPT$



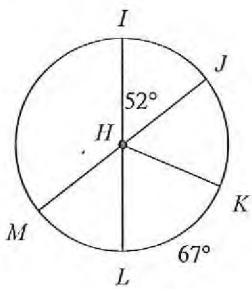
3) $m\widehat{DF}$



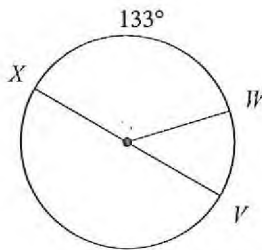
4) $m\widehat{LIK}$



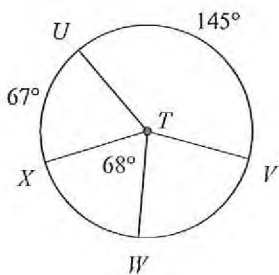
5) $m\angle KHM$



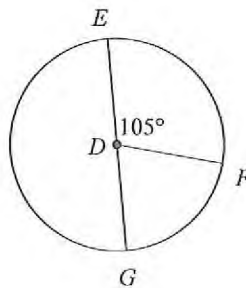
6) $m\widehat{WVX}$



7) $m\angle VTW$

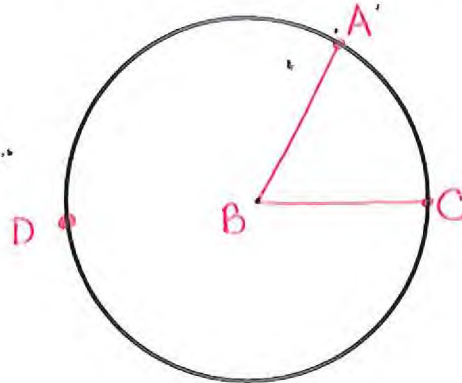


8) $m\angle FDG$



Central Angles Conjecture

The measure of an arc formed by two adjacent arcs is the sum of the measures of the two arcs and the measure of a minor arc is the measure of its central angle.

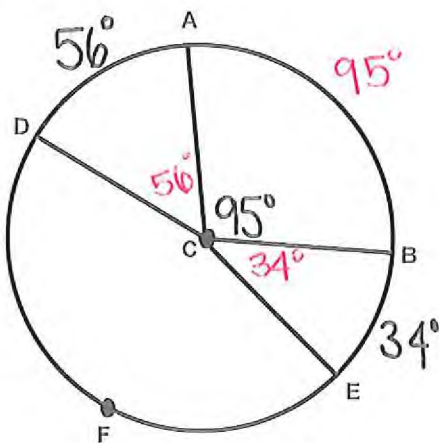


$$m\angle ABC = m\widehat{AC}$$

$$m\widehat{DA} + m\widehat{AC} = m\widehat{DAC}$$

$$m\widehat{DA} + m\widehat{AC} + m\widehat{CD} = 360^\circ$$

Example



A) Find the measure of \widehat{AB} . 95°

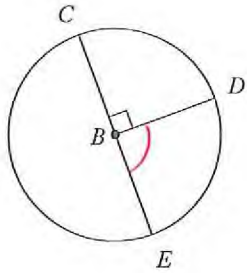
B) Find the measure of angle DCA. 56°

C) Find the measure of \widehat{DAB} . 151°

D) Find the measure of \widehat{DFE} . 175°

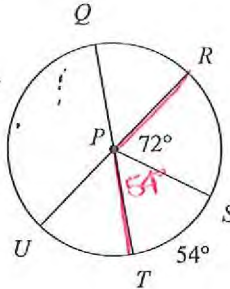
Find the measure of the arc or central angle indicated. Assume that lines which appear to be diameters are actual diameters.

1) $m\angle DBE$



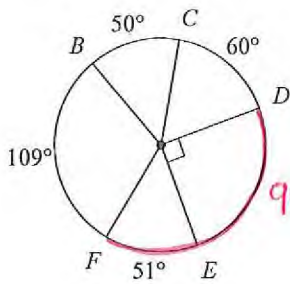
90°

2) $m\angle RPT$



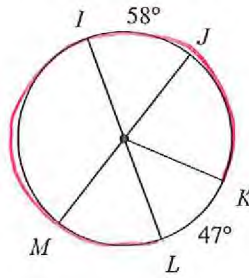
126°

3) $m\widehat{DF}$



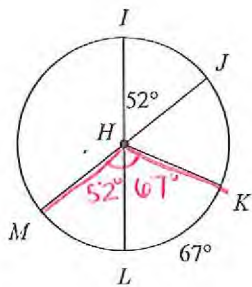
141°

4) $m\widehat{LIK}$



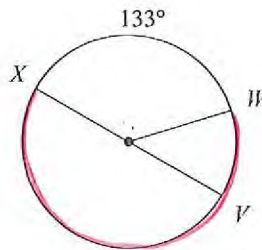
313°

5) $m\angle KHM$



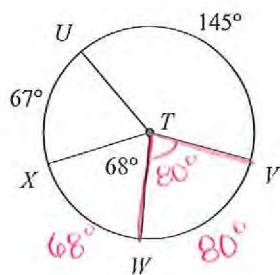
119°

6) $m\widehat{WVX}$



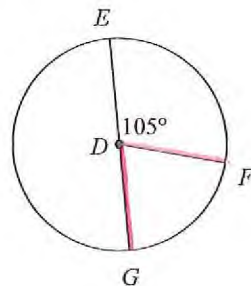
227°

7) $m\angle VTW$



80°

8) $m\angle FDG$



75°