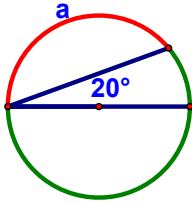


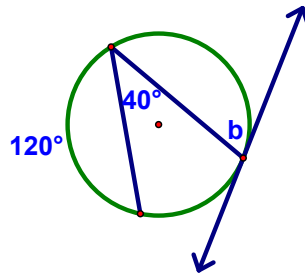
5.

Find the measure of each arc angle or arc that is labeled with a letter:

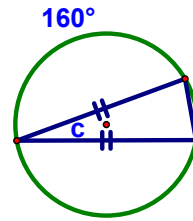
a.



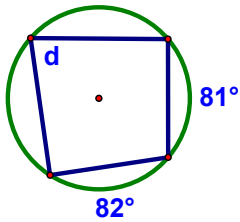
b.



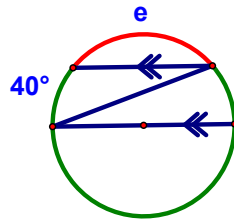
c.



d.



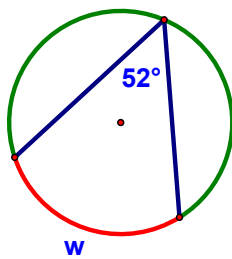
e.



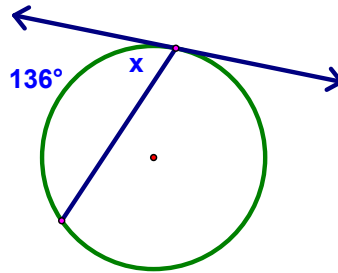
6.

Find the measure of each angle or arc that is labeled with a letter:

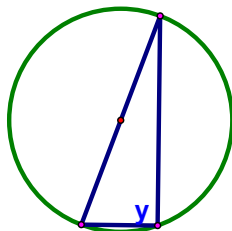
a.



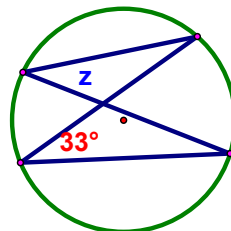
b.



c.

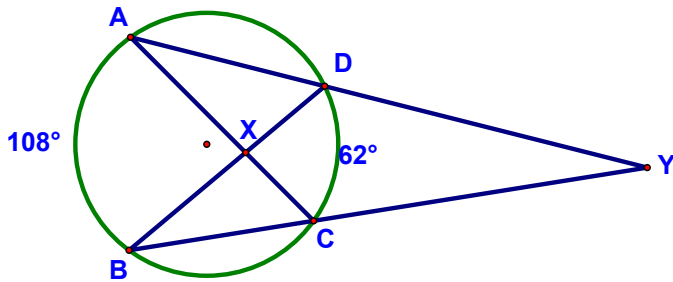


d. z



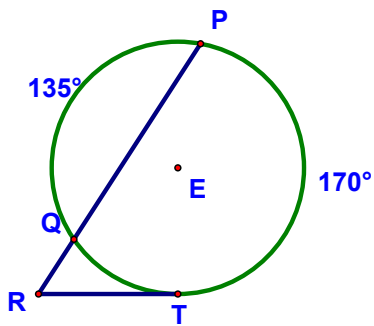
7.

Find $m\angle AXB$ and $m\angle Y$



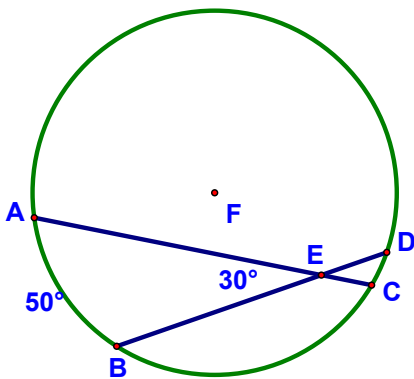
8.

Find $m\angle R$



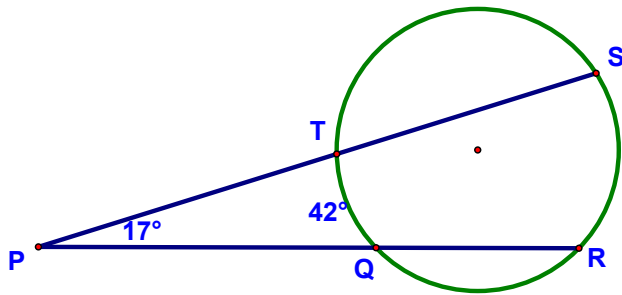
9.

Find $m\widehat{CD}$



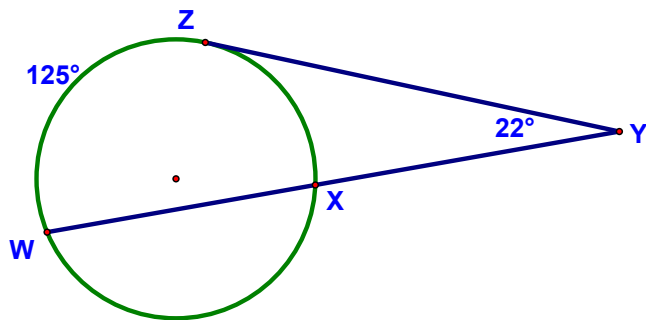
10.

Find $m\widehat{SR}$



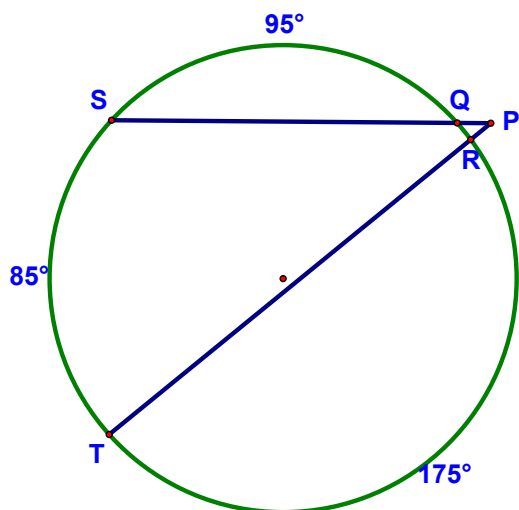
11.

Find $m\widehat{XZ}$



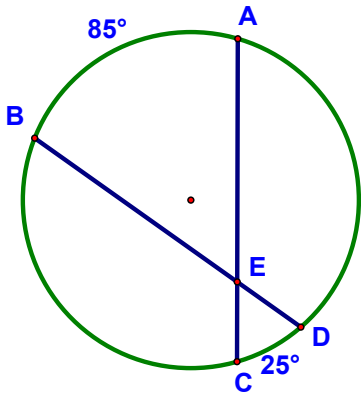
12.

Find $m\angle P$



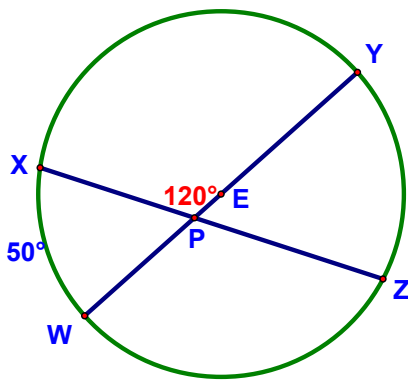
13.

Find $m\angle AED$



14.

Given $\odot E$ and the measures shown, find $m\widehat{WZ}$



15.

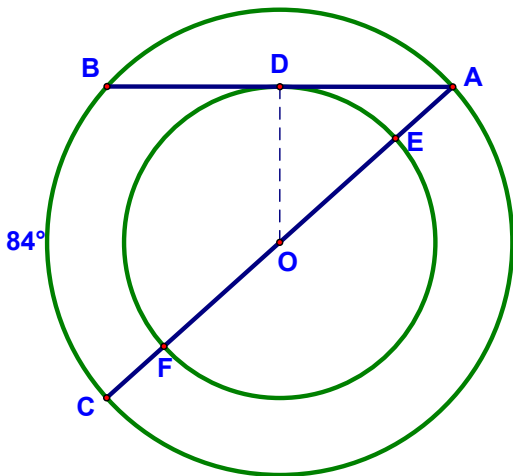
A circle is divided into three arcs in the ratio of 3:4:5. A tangent-chord angle intercepts the largest of the three arcs. Find the measure of the tangent-chord angle.

16.

An inscribed angle intercepts an arc that is $\frac{1}{9}$ of the circle. Find the measure of the inscribed angle.

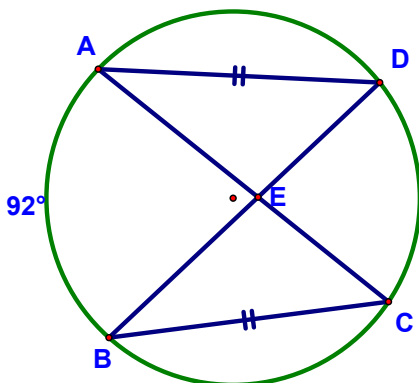
22.

Given circles concentric at O, \overline{AB} tangent to the inner circle, and $\widehat{BC} = 84^\circ$, find the measures of $\angle A$, \widehat{DE} , and \widehat{DF} .



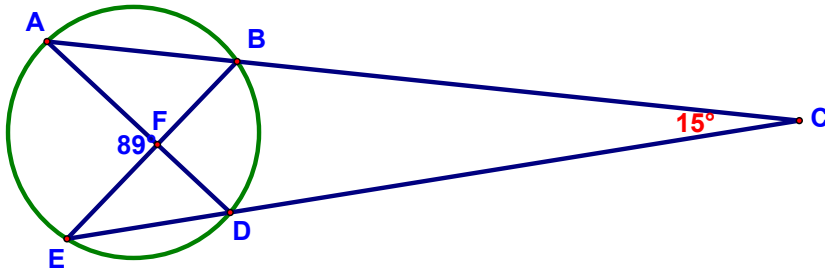
23.

$m\angle AEB = 82^\circ$. Find $m\widehat{AD}$.



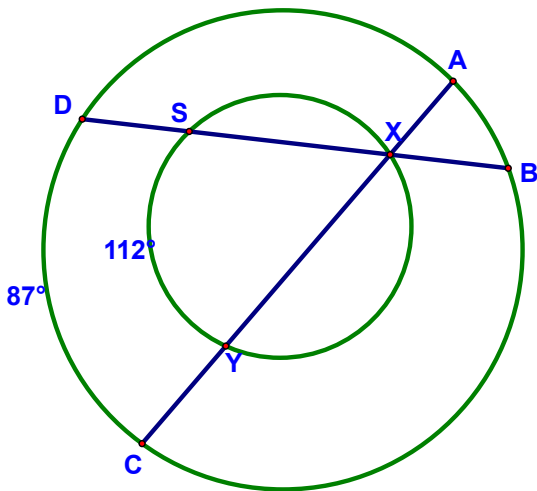
24.

Find $m\widehat{AE}$ and $m\widehat{BD}$



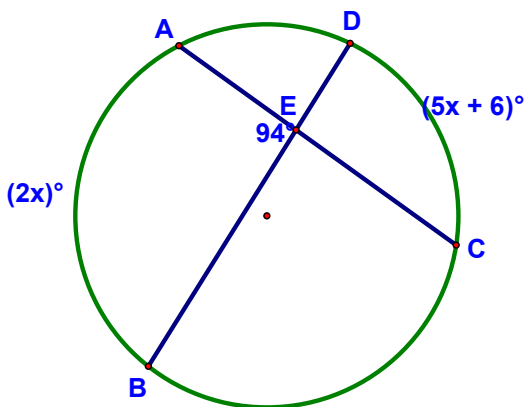
25.

Find $m\widehat{AB}$



26.

Find $m\widehat{AB}$



27.

A secant-secant \angle intercepts arcs that are $\frac{3}{5}$ and $\frac{3}{8}$ of the circle. If a chord-chord \angle and its vertical angle intercept the same arcs, what is the measure of the chord-chord angle?

28.

$\triangle ABC$ is inscribed in a circle (all sides are chords), $AB = 12$, $AC = 6$, and $BC = 6\sqrt{3}$. Find $m\widehat{BC}$.