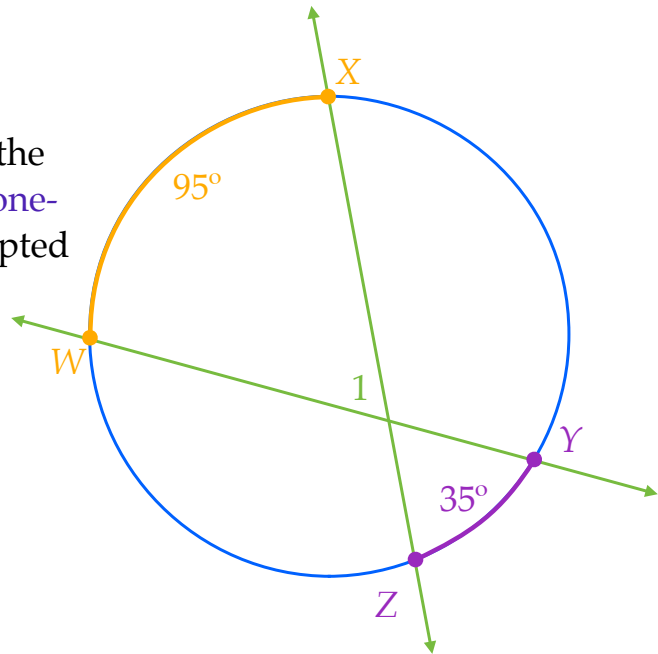


Angle Relationships in Circles

Interior Angles

If two **secants** intersect inside of a **circle**, the measures of the angle formed is equal to **one-half the sum of the measures** of the intercepted **arcs**.

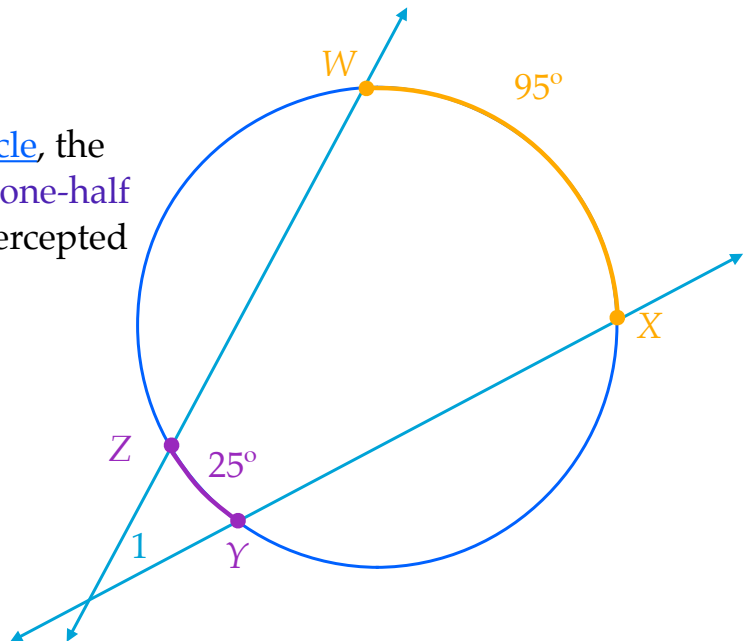
$$m\angle 1 = \frac{1}{2}(m\widehat{WX} + m\widehat{YZ})$$



Exterior Angles

If two **secants** intersect outside of a **circle**, the measure of the angle formed is equal to **one-half the difference of the measures** of the intercepted **arcs**.

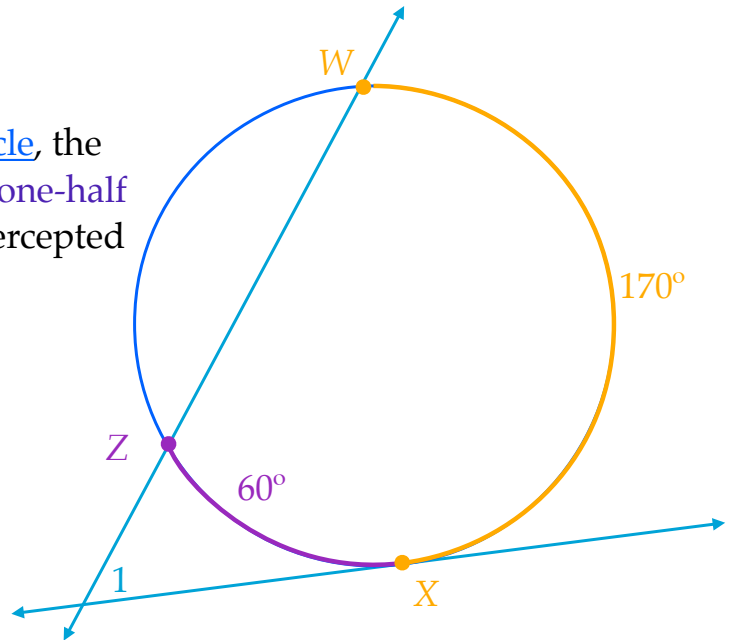
$$m\angle 1 = \frac{1}{2}(m\widehat{WX} - m\widehat{YZ})$$



Exterior Angles

If two **secants** intersect outside of a circle, the measure of the angle formed is equal to **one-half** the difference of the measures of the intercepted **arcs**.

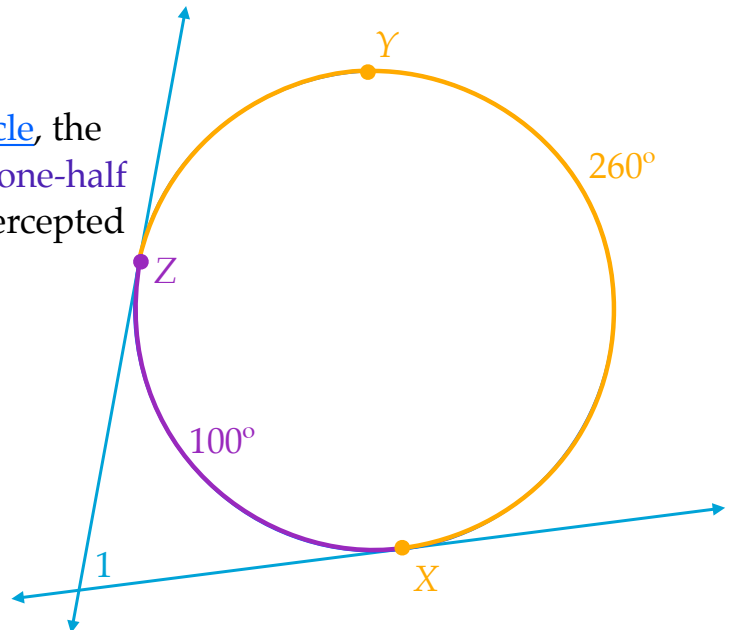
$$m\angle 1 = \frac{1}{2}(m\widehat{WX} - m\widehat{XZ})$$



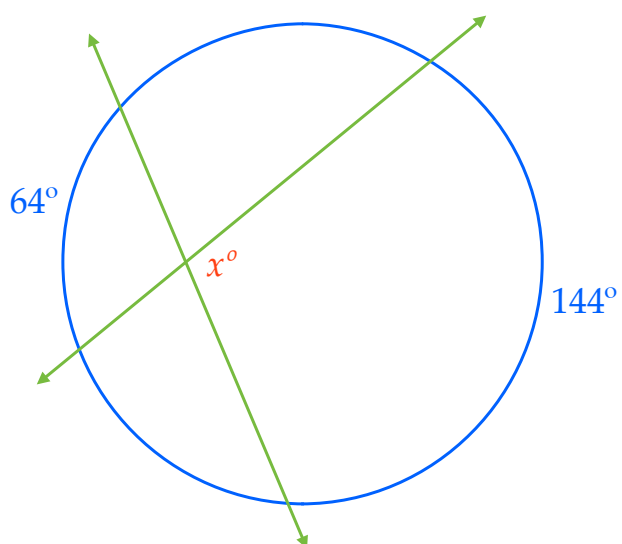
Exterior Angles

If two **secants** intersect outside of a circle, the measure of the angle formed is equal to **one-half** the difference of the measures of the intercepted **arcs**.

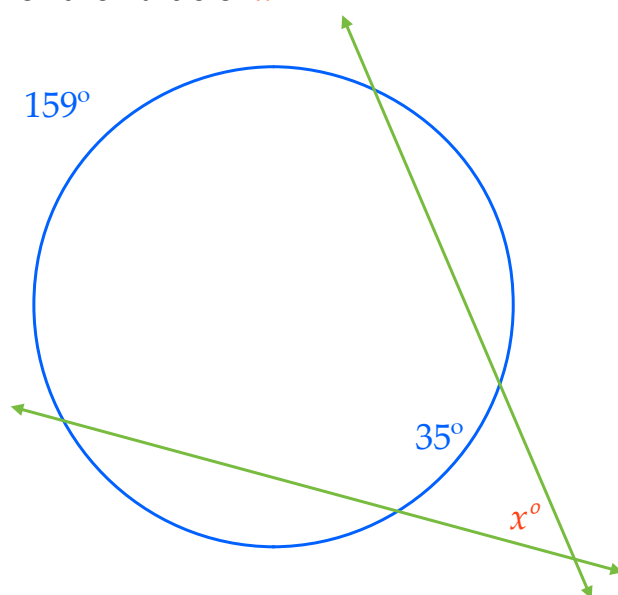
$$m\angle 1 = \frac{1}{2}(m\widehat{XYZ} - m\widehat{XZ})$$



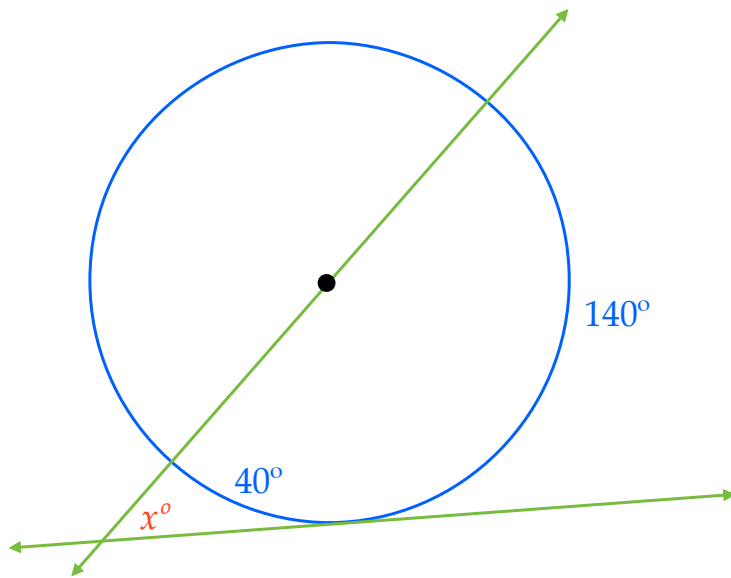
Solve for the value of x .



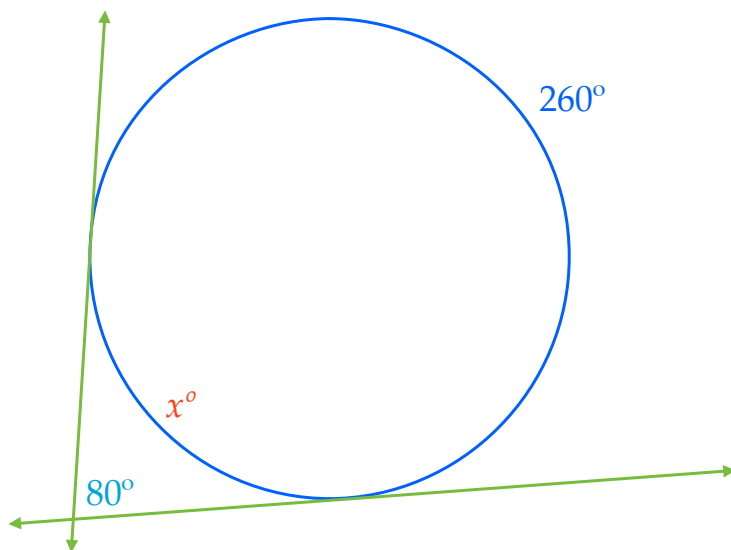
Solve for the value of x .



Solve for the value of x .

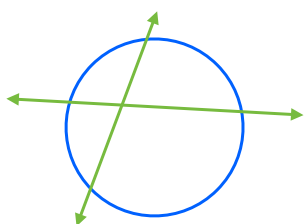


Solve for the value of x .



Interior Angles

$$m\angle 1 = \frac{1}{2}(m\widehat{WX} + m\widehat{YZ})$$



Exterior Angles

$$m\angle 1 = \frac{1}{2}(m\widehat{WX} - m\widehat{YZ})$$

