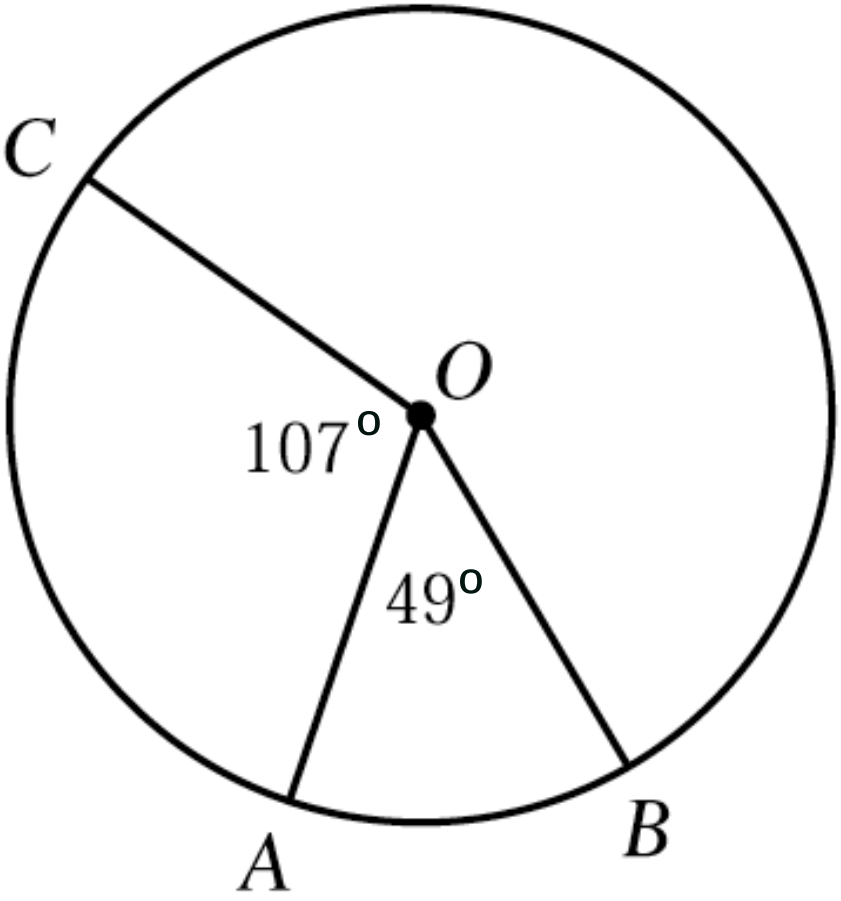
Chapter 12 Review

Arc Measures

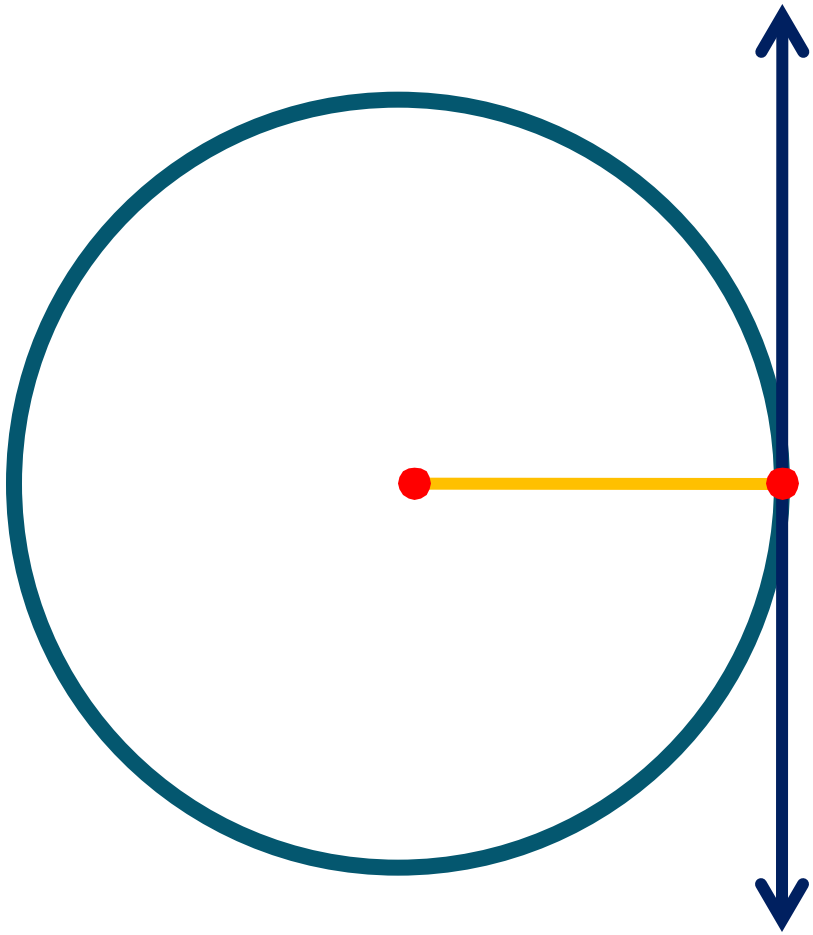


$m\overset{\frown}{AB} =$

$m\overset{\frown}{ABC} =$

$m\overset{\frown}{BAC} =$

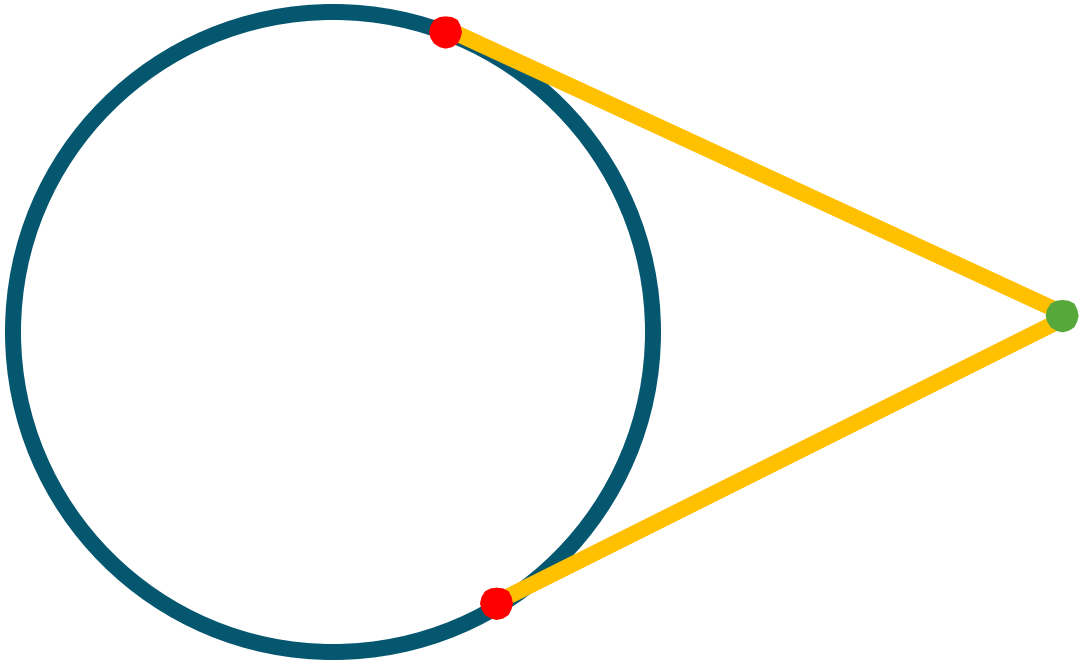
$m\overset{\frown}{ACB} =$



POK

Tangent Theorem

A tangent to a circle is _____ to the radius drawn to the _____.



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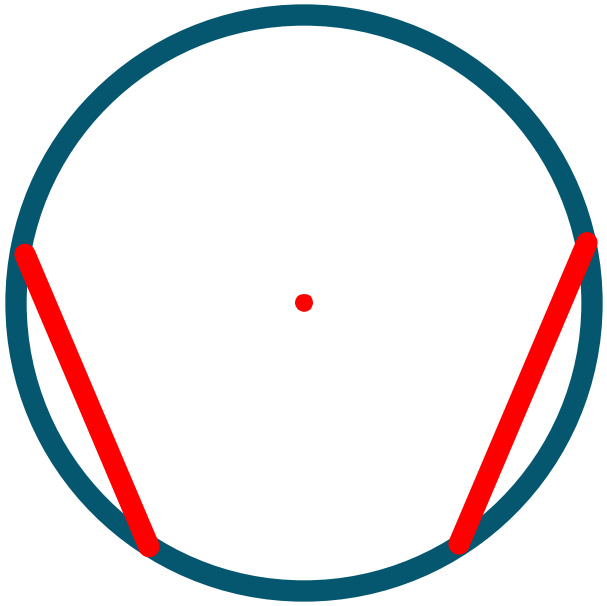
Tangent Segments Theorem

Tangent segments to a circle from a point outside the circle are _____ .

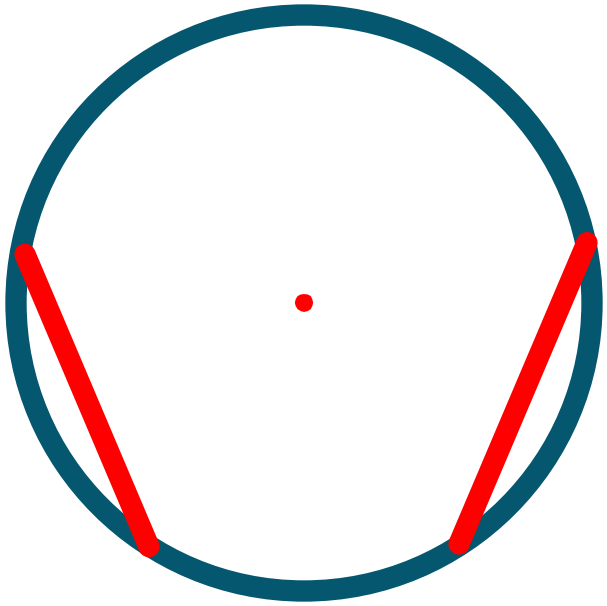
Chord Properties



If two chords in a circle are congruent, then they determine

_____

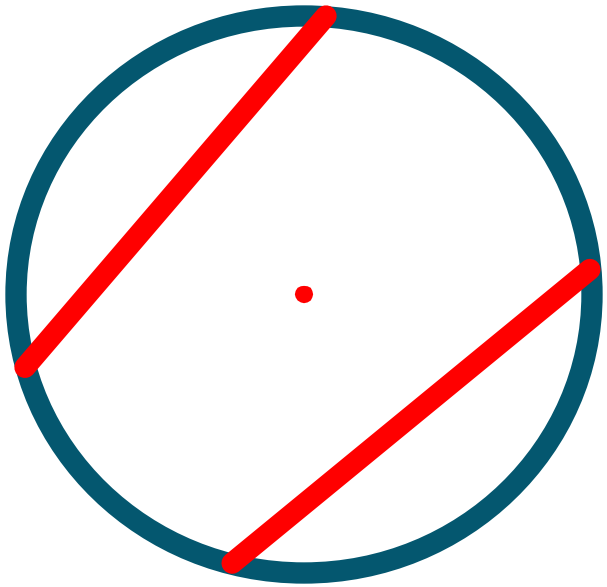
Chord Properties



If two chords are congruent, then their intercepted arcs are

_____

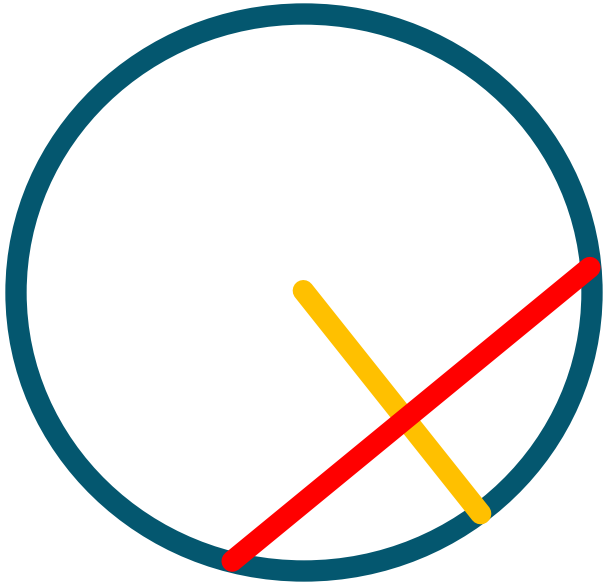
Chord Properties



Two congruent chords in a circle _____

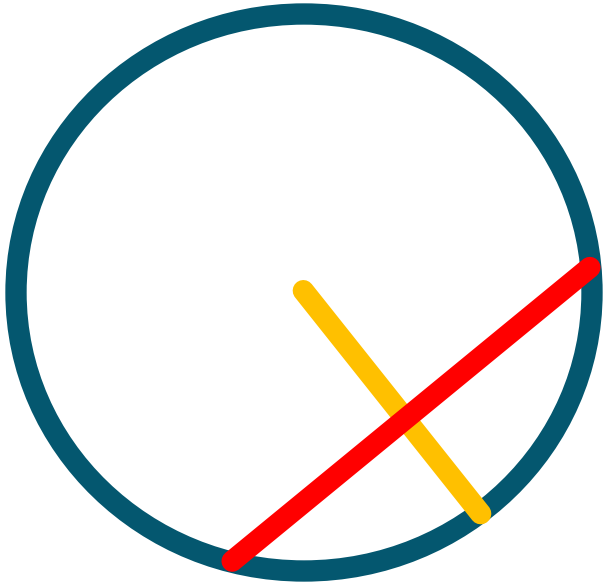
_____

Chord Properties



The perpendicular from the center of a circle to a chord

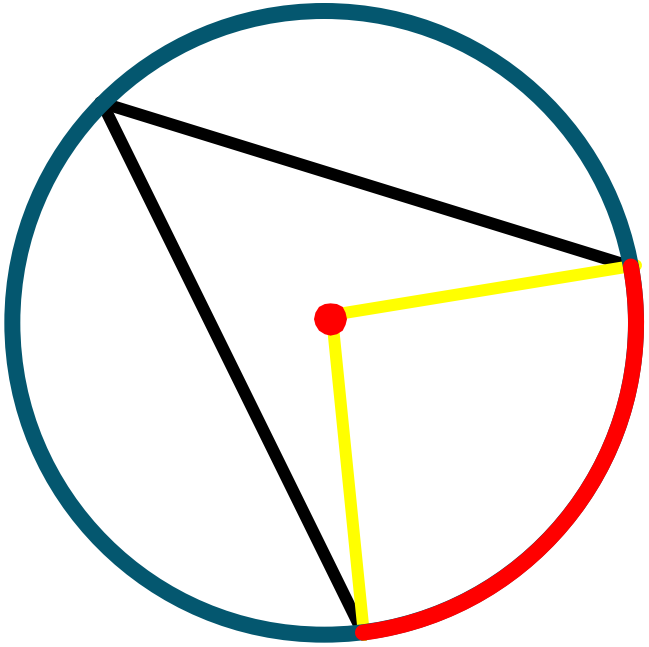
Chord Properties



A segment that bisects a chord _____

_____

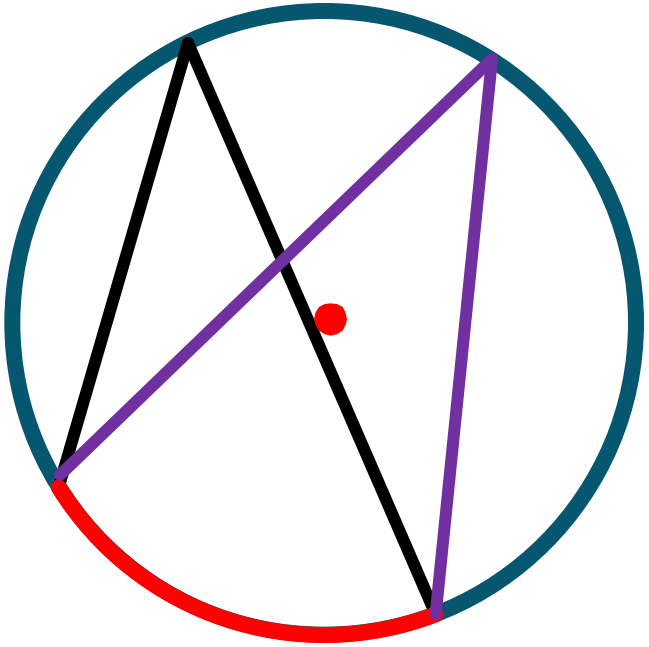
Relationship between inscribed angles and central angles



Inscribed Angle Theorem

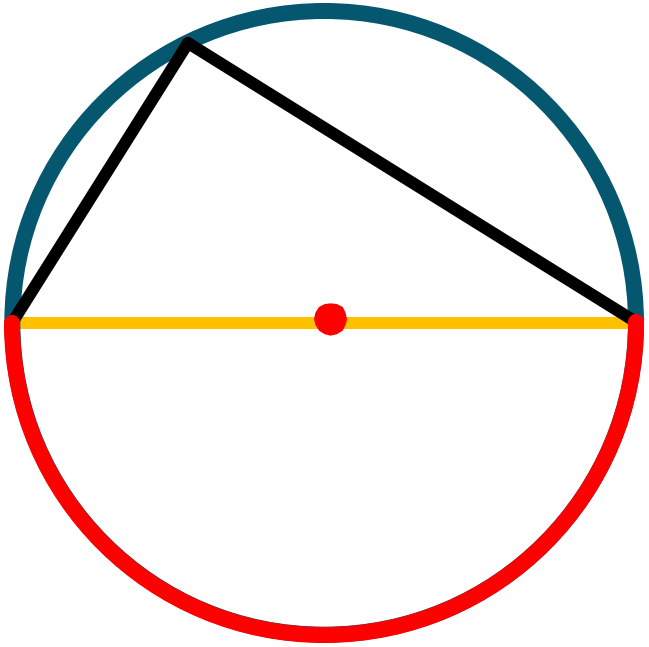
The measure of an _____ angle is half the measure of the _____ angle that shares the same _____ arc

Relationship between inscribed angles that share the same arc.



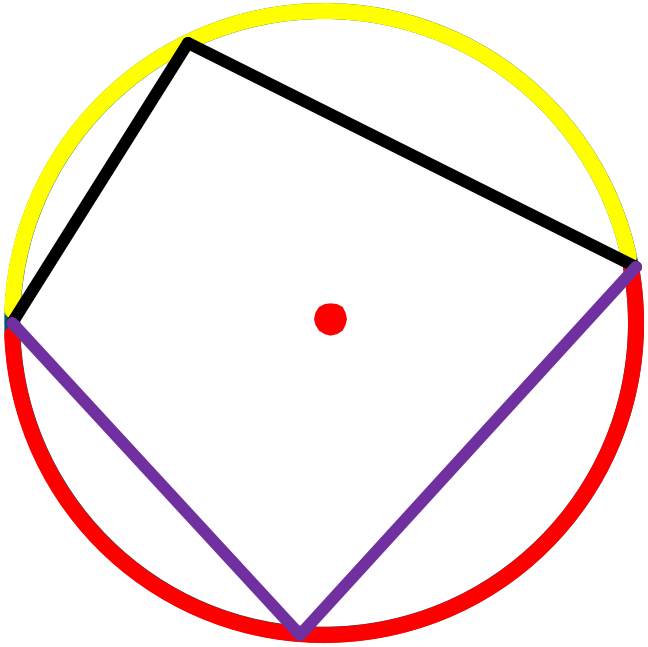
Inscribed angles that share the same _____ arc are _____.

Observations of a right inscribed angle



Angles inscribed in a semicircle are _____ _____.

Quadrilaterals inscribed in a Circle...



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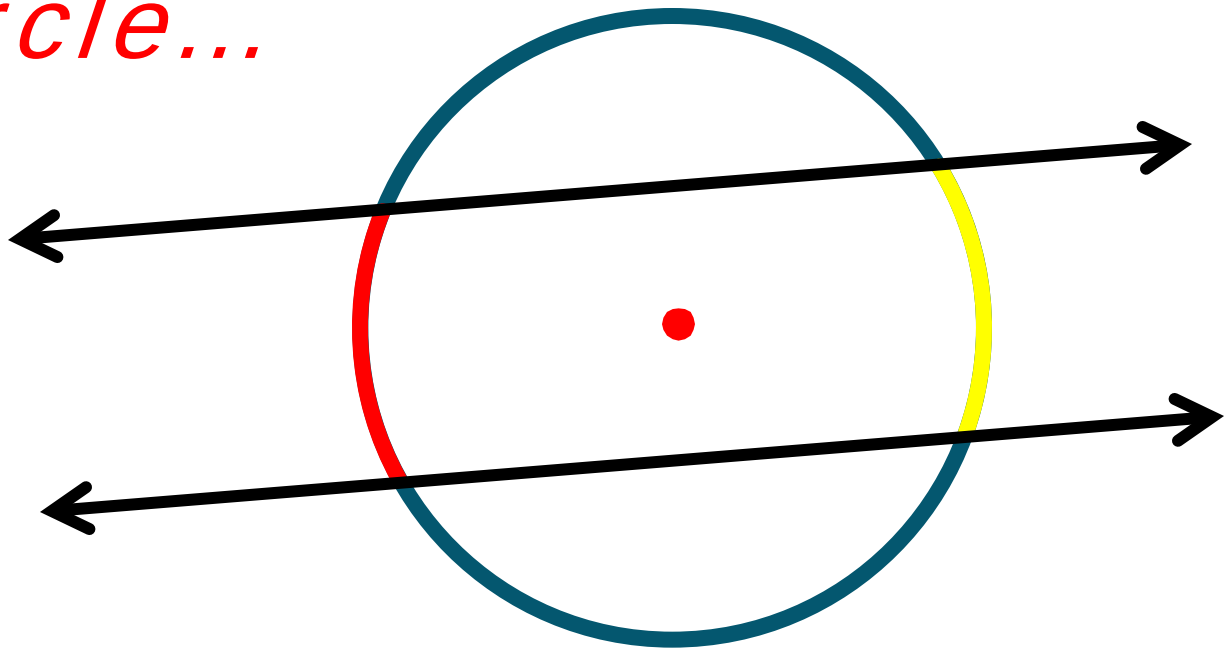
Cyclic Quadrilateral Theorem

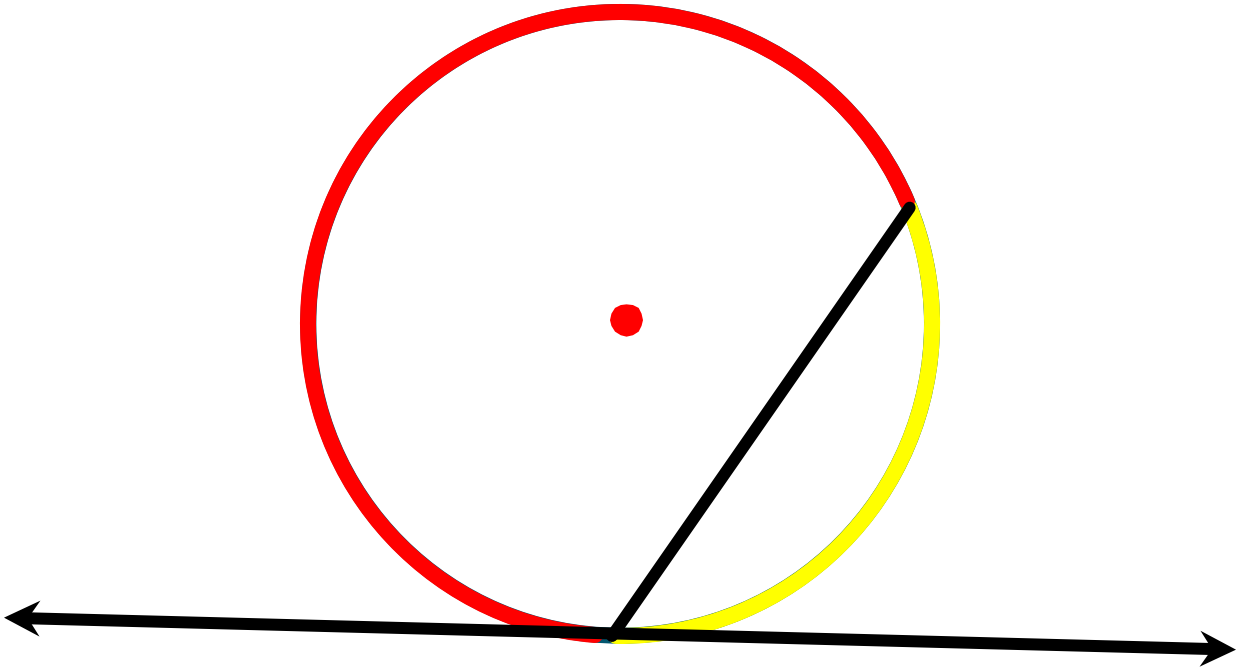
_____ angles in a cyclic quadilateral are _____.

Parallel Lines Intersecting a Circle…



Parallel lines intercept _____ arcs on a circle.

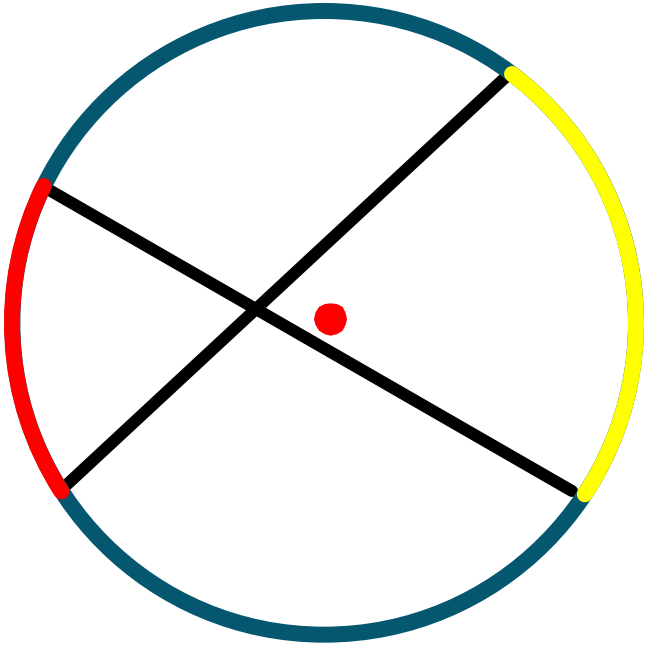
Tangent/Chord Theorem



Tangent/Chord Theorem

If a tangent and chord _____ at a point on a circle, then the measure of each angle formed is _____ the measure of the _____ arc.

Angle/Chord Theorem



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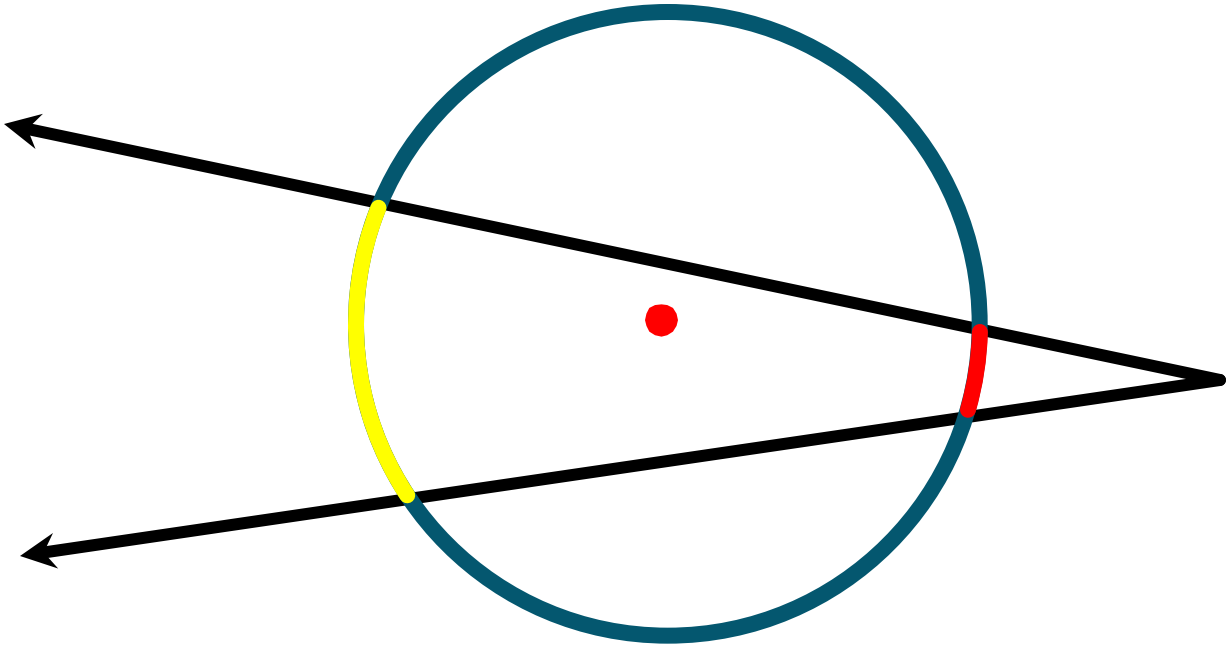
Angle/Chord Theorem

If two chords intersect _____ a circle, then the measure of each angle is _____ the sum of the intercepted arcs.

Angle/Secant Theorem



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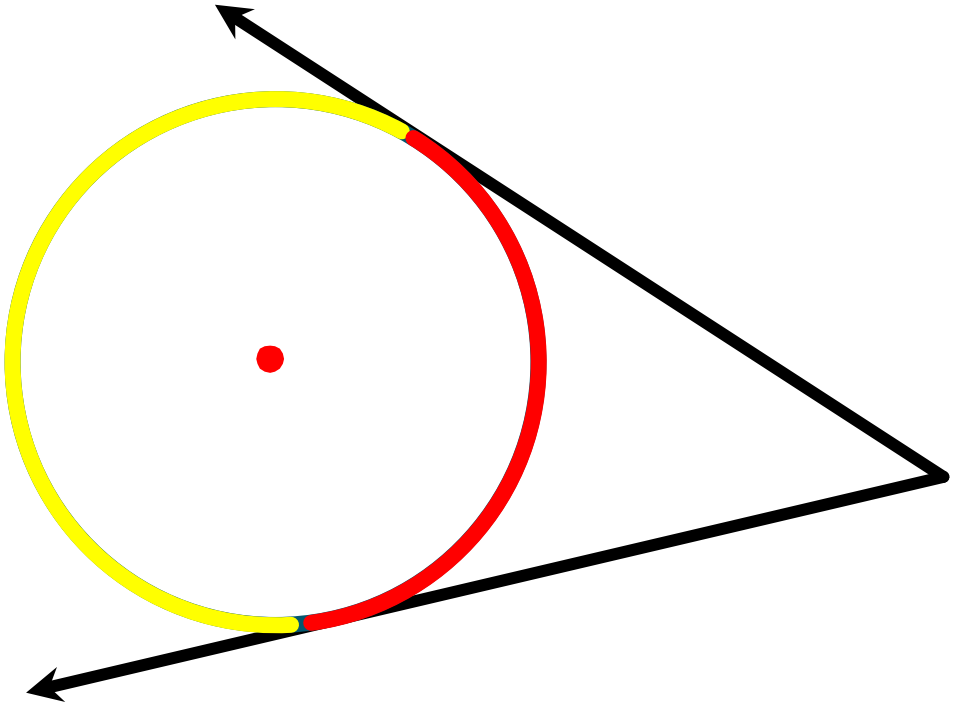
Angle/Secant Theorem

If secants intersect outside a circle, then the measure of the angle formed outside the circle is _____ the _____ of the intercepted arcs

Angle/Tangents Theorem



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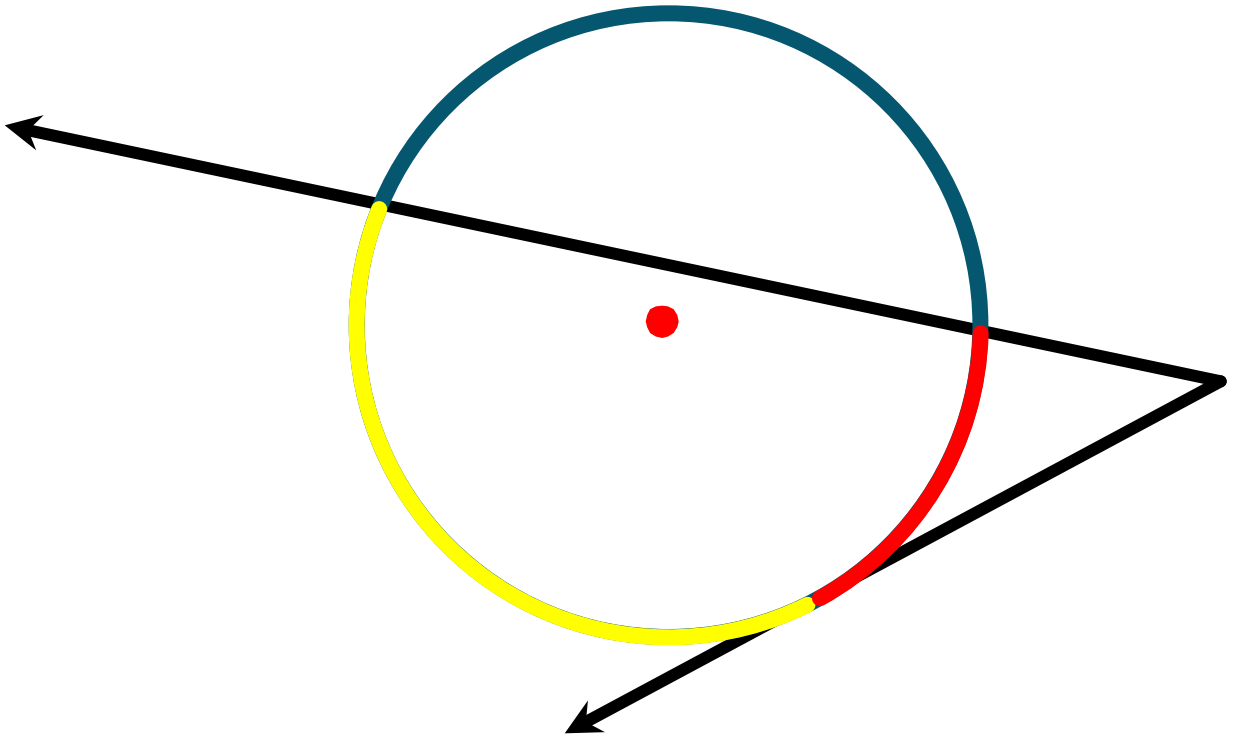
Angle/Tangents Theorem

If tangents intersect outside a circle, then the measure of the angle formed outside the circle is _____ the difference of the intercepted arcs

Tangent/Secant Theorem

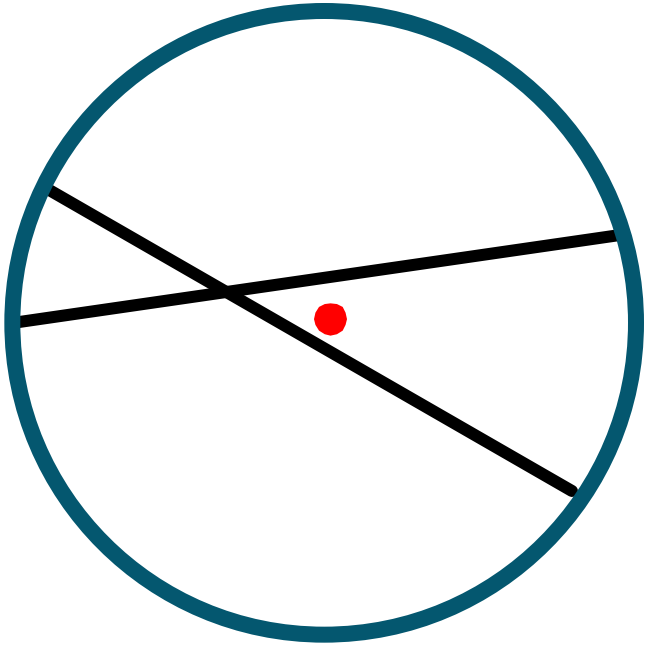


Tangent/Secant Theorem

POK

If tangents or secants intersect outside a circle, then the measure of the angle formed outside the circle is _____ the difference of the intercepted arcs

Segments of Chord Theorem



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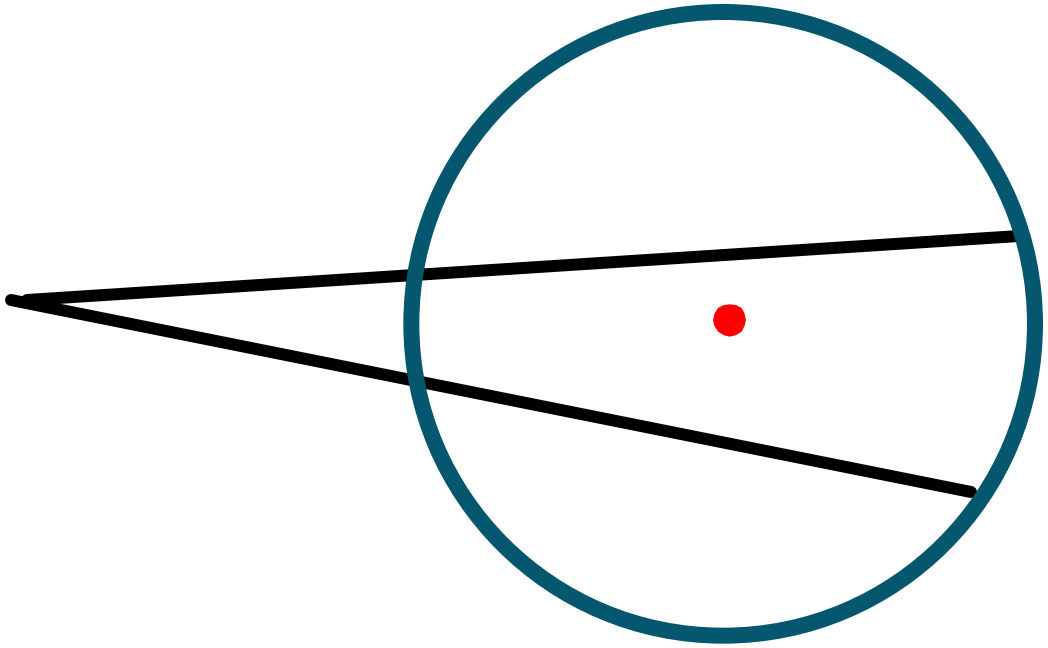
Segments of Chords Theorem

If two chords intersect in a circle then the _____ of the lengths of the segments of one chord is equal in measure to the _____ of the segments in the other chord.

Secant Length Theorem



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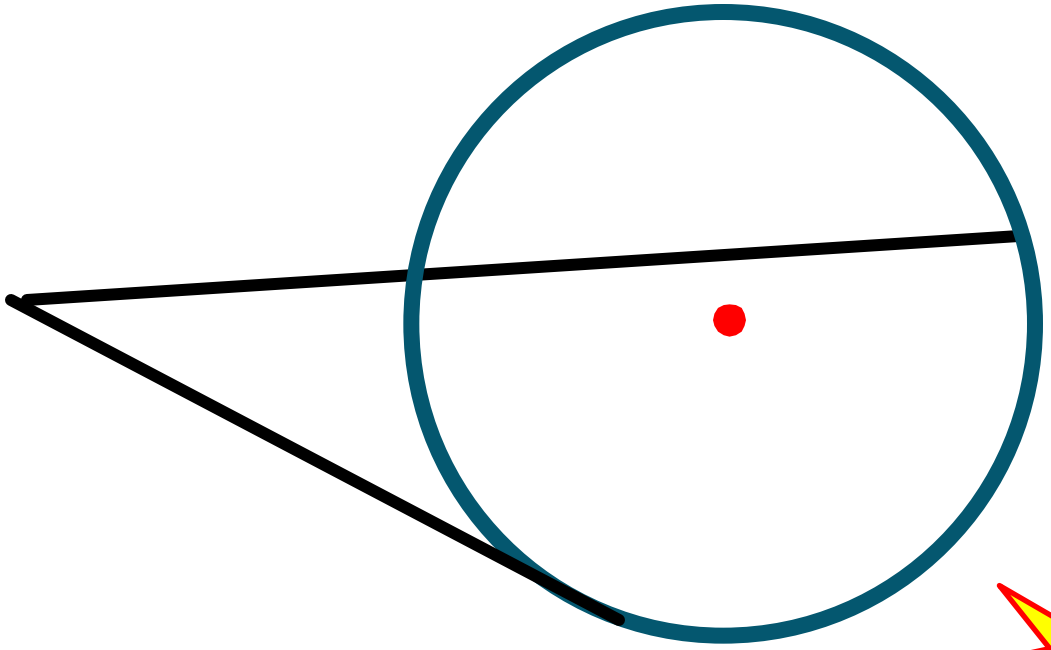
Secant Length Theorem

If two secant segments share the same endpoint outside a circle, then the _____ of the lengths of one secant and its external part is equal to the _____ of the other secant and its external part.

Secants/Tangent Lengths Theorem



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Secants/Tangents Lengths Theorem

If a secant and a tangent segment share the same endpoint outside a circle, then the _____ of the lengths of the secant and its external part is equal to the _____ of the tangent segment

Equation of a circle

- (h,k) is the center of the circle
- r is the radius