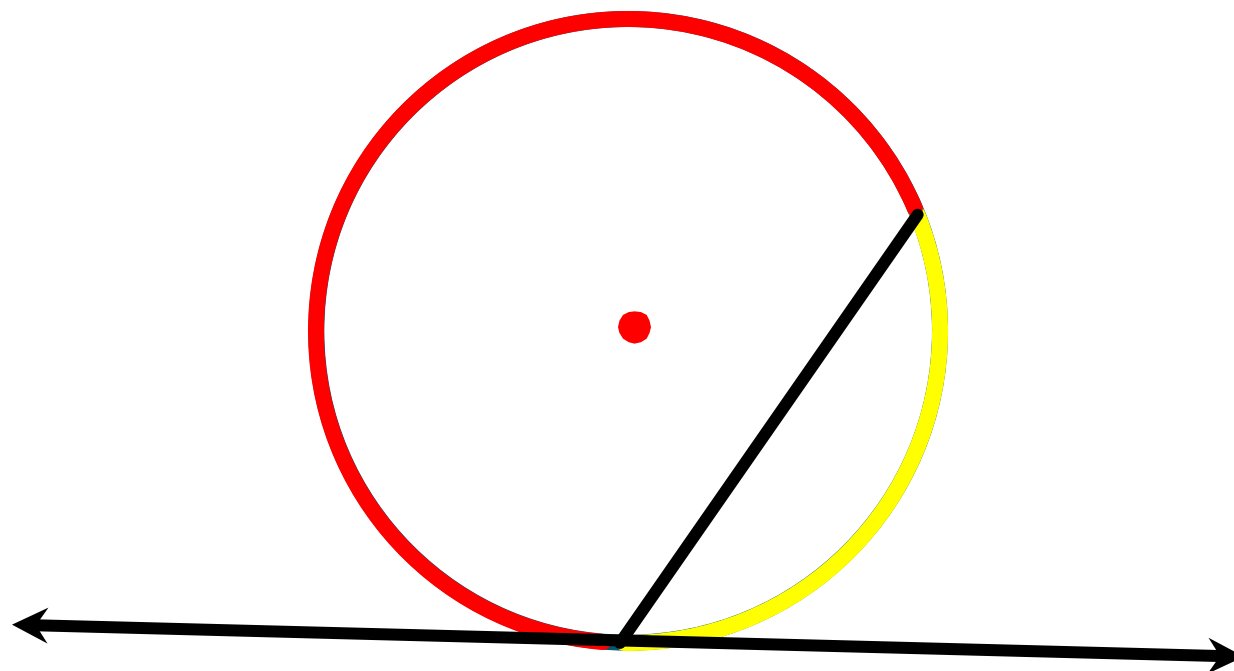


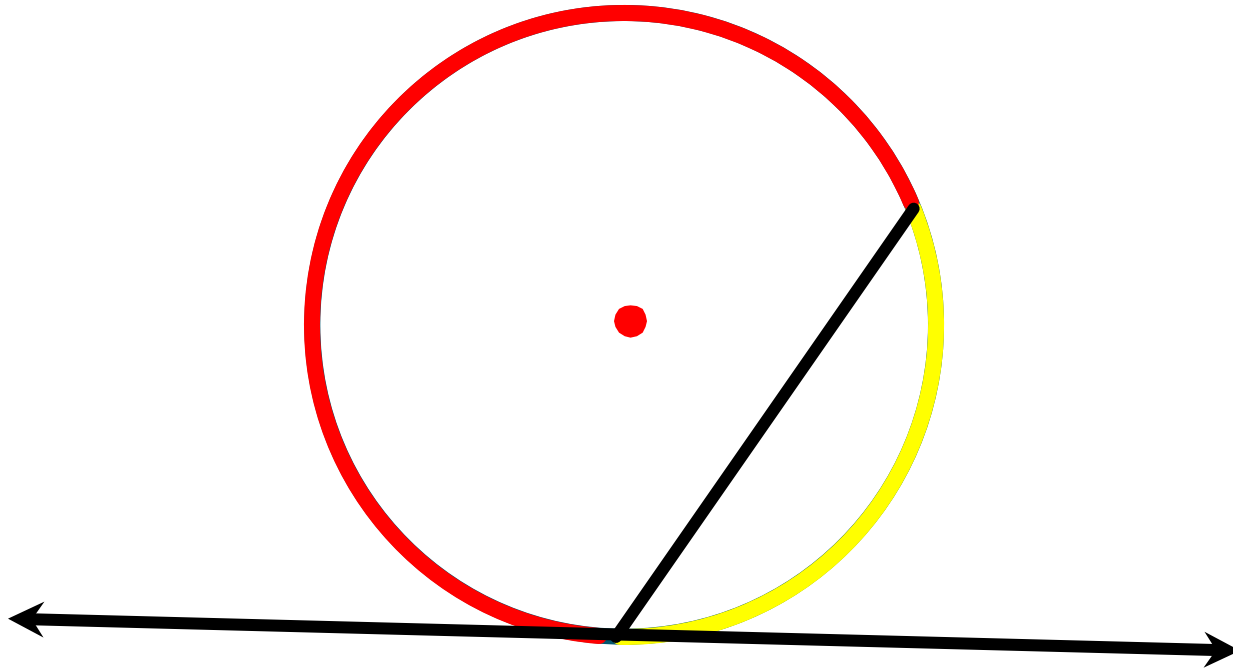
12.5

Angles of Chords, Secants, and Tangents

Tangent/Chord Theorem



Tangent/Chord Theorem

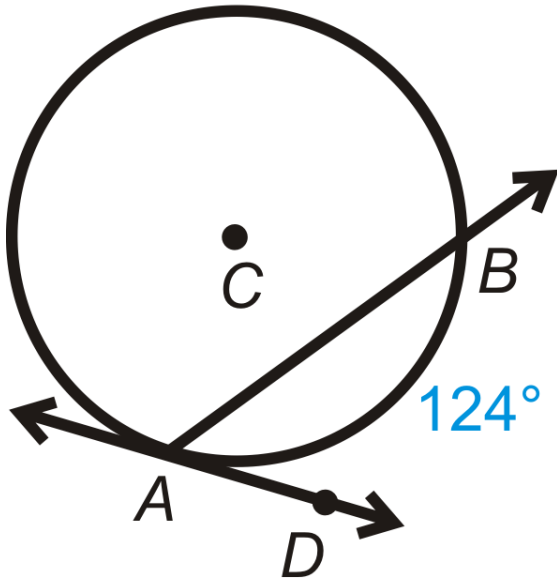


Tangent/Chord Theorem

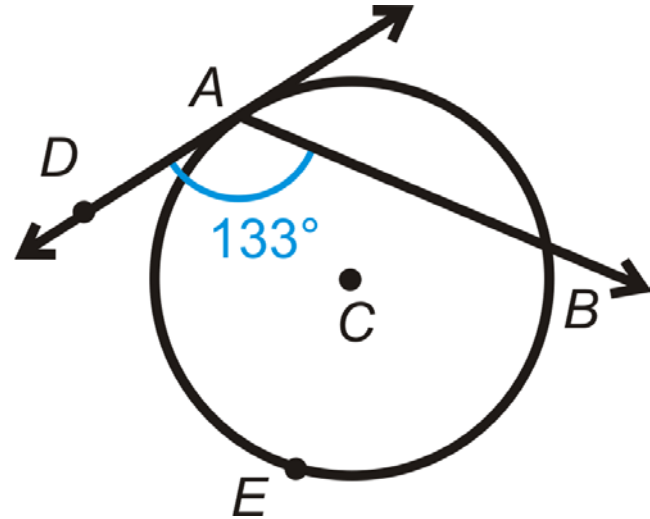
If a tangent and chord _____ at a point on a circle, then the measure of each angle formed is _____ the measure of the _____ arc.

Practice

1) Find $m\angle BAD$

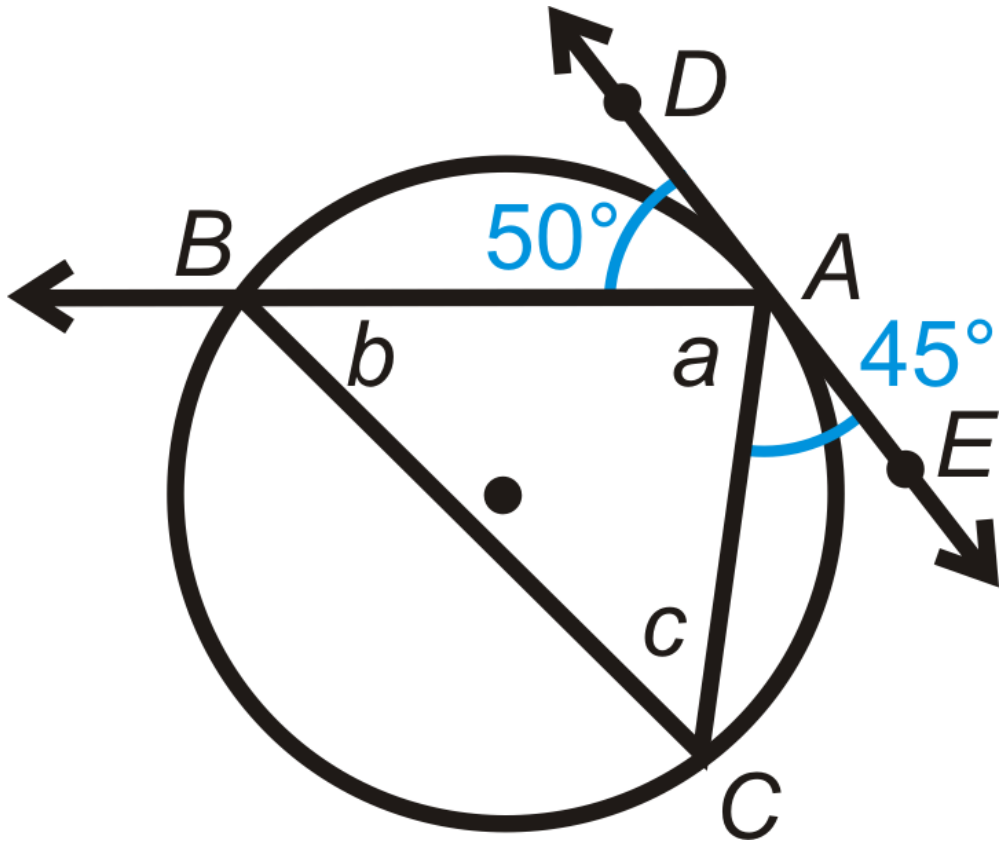


2) Find $m\widehat{AEB}$

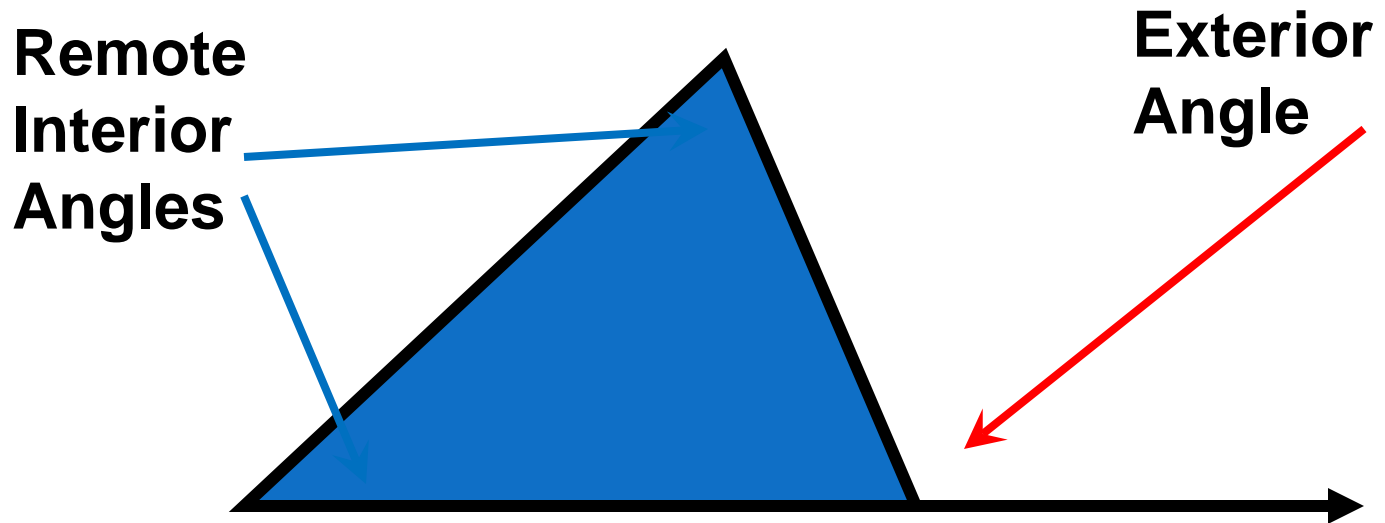


Practice

3)

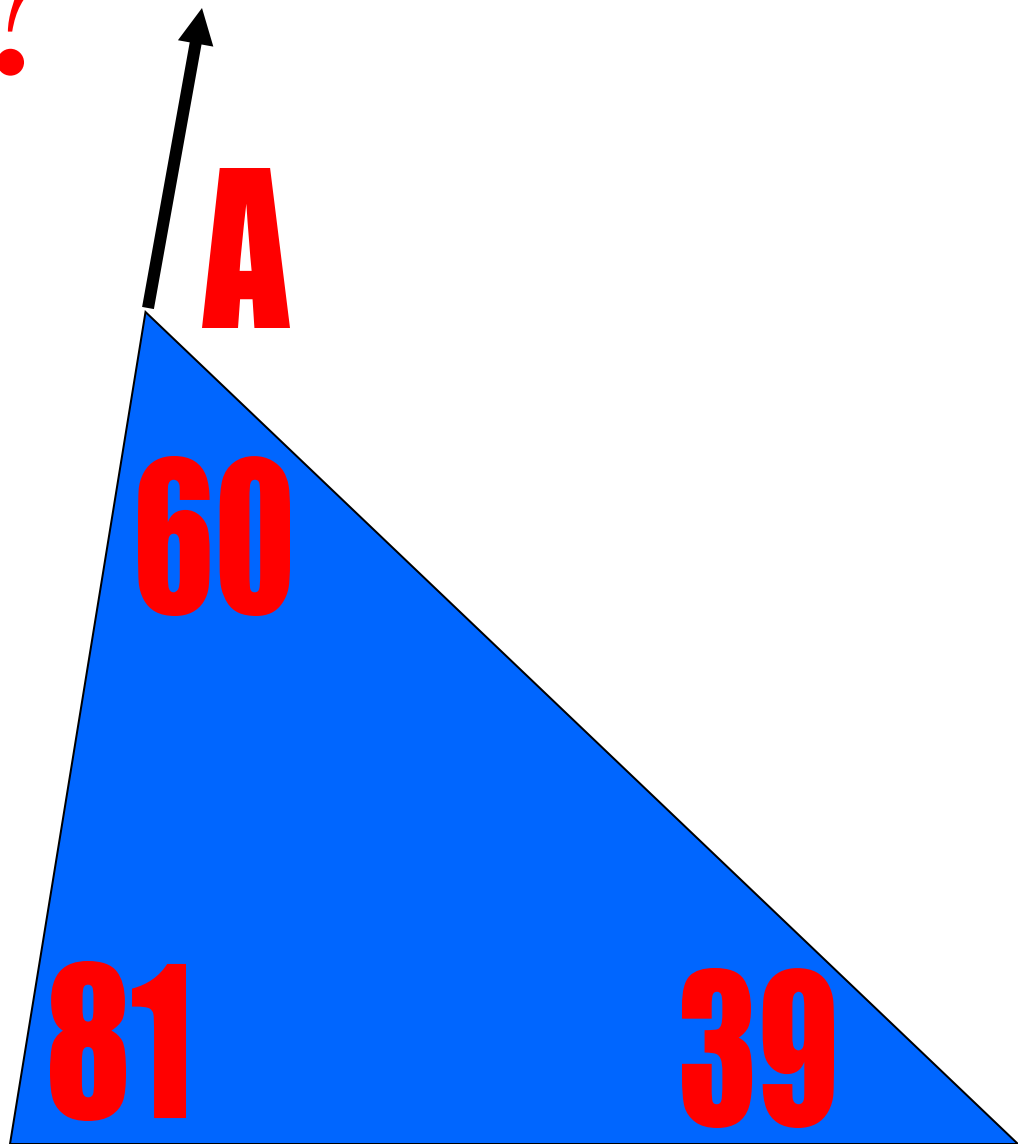


Exterior Angle

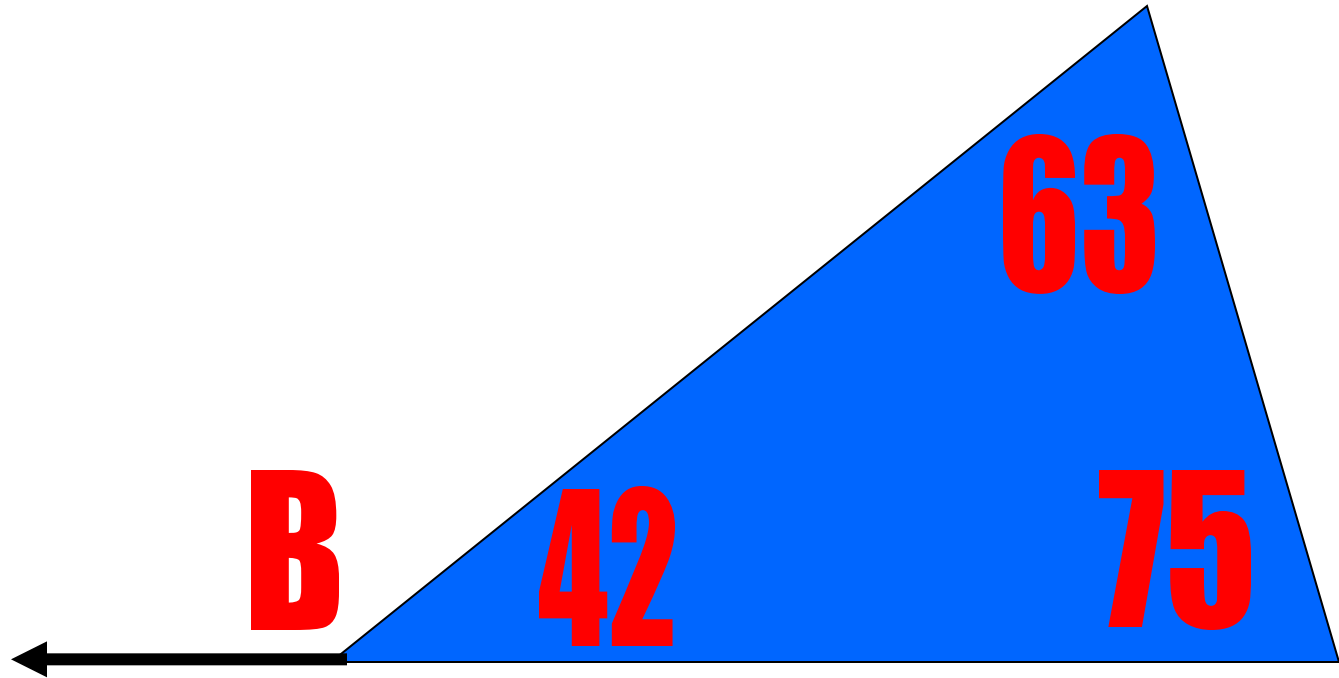


If you extend one side of a triangle from the vertex, you form an exterior angle.

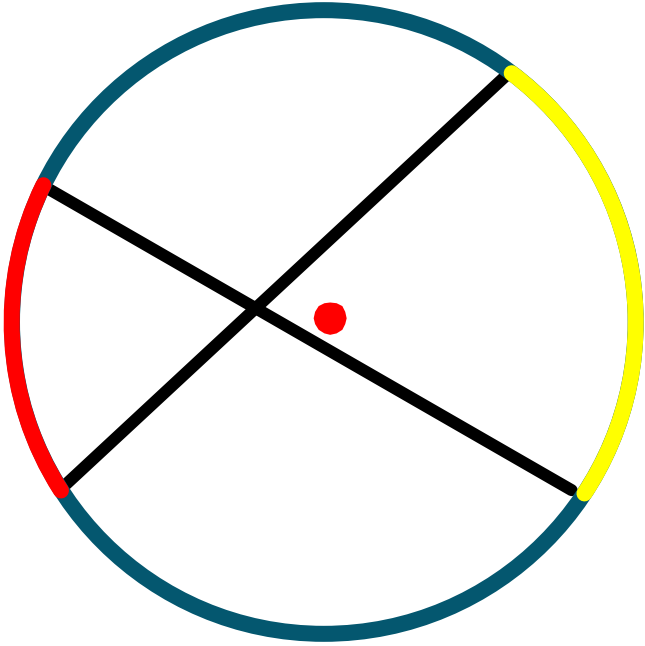
$m\angle A = ?$



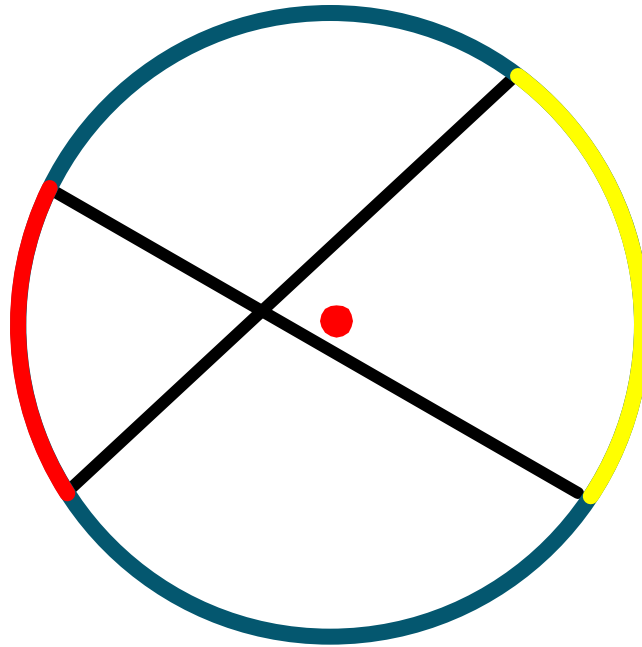
$m\angle B = ?$



Angle/Chord Theorem



Angle/Chord Theorem

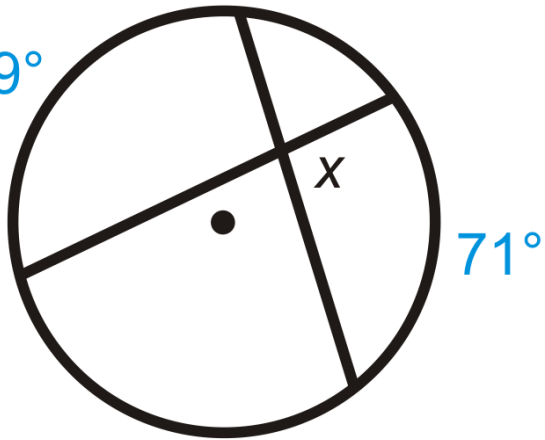


Angle/Chord Theorem

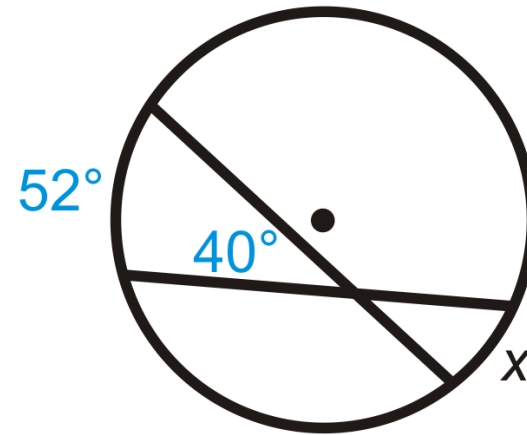
If two chords intersect _____ a circle,
then the measure of each angle is _____ the
sum of the intercepted arcs.

Practice

4) 129°

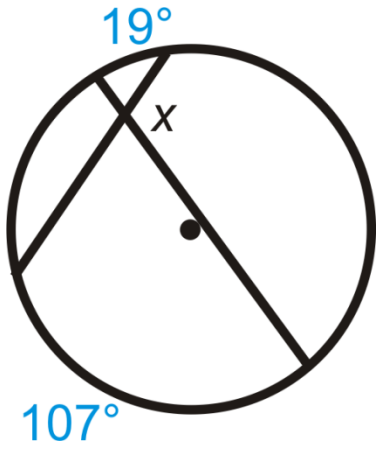


5)

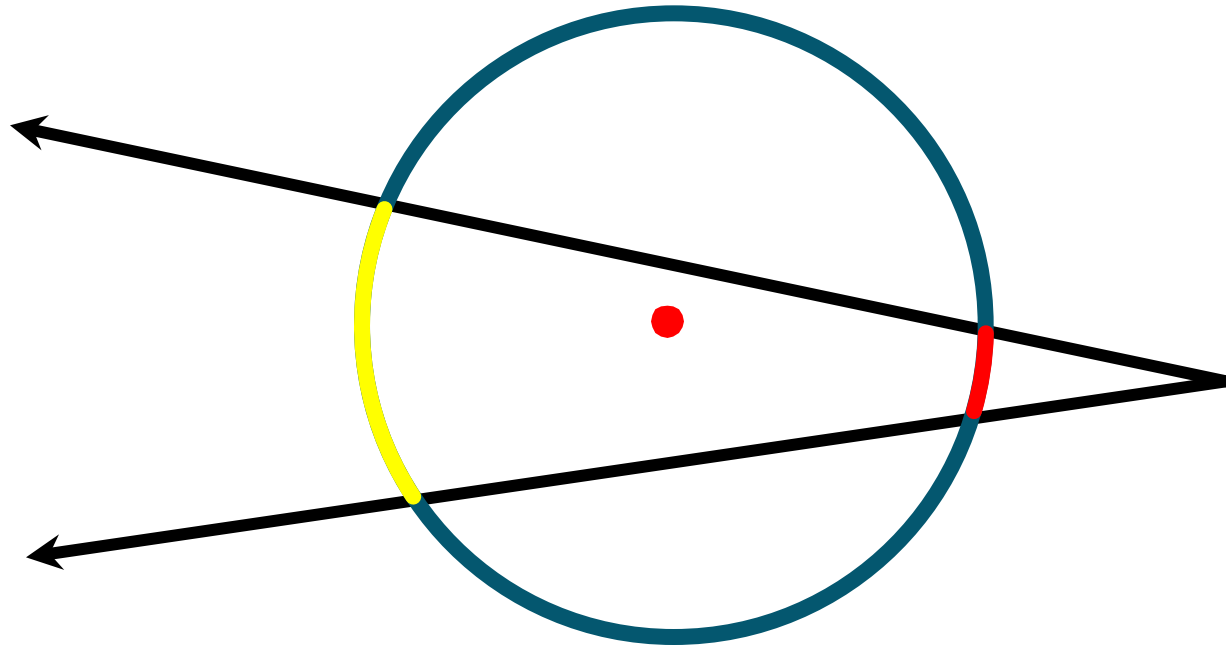


Practice

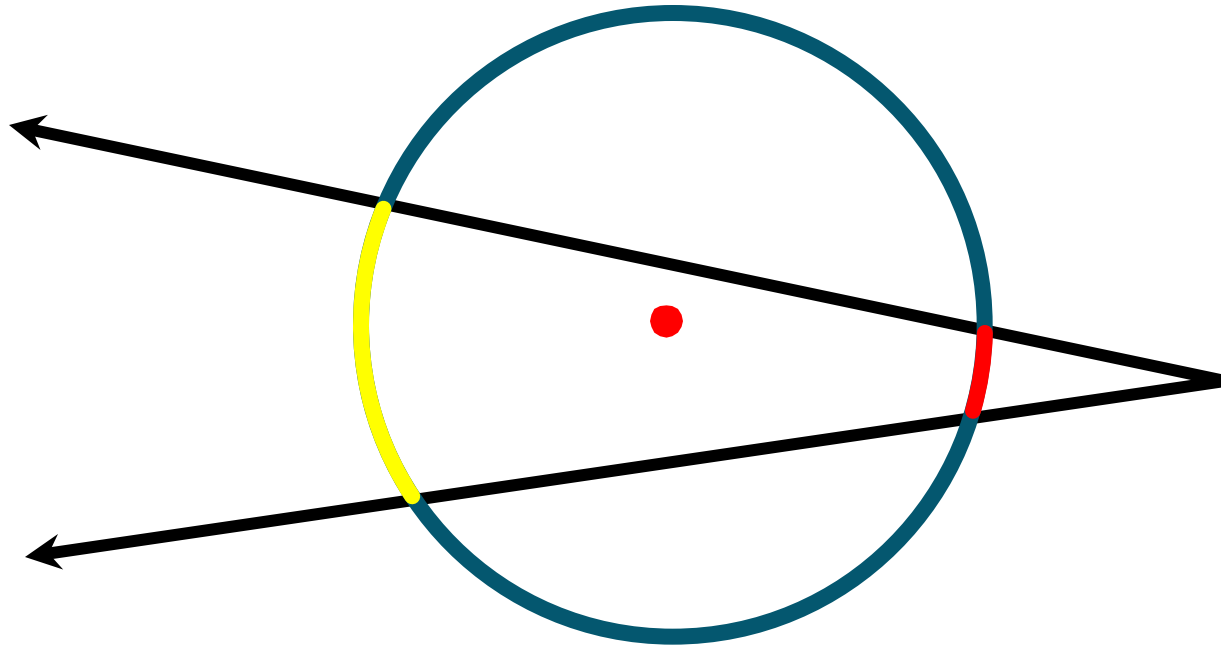
6)



Angle/Secant Theorem



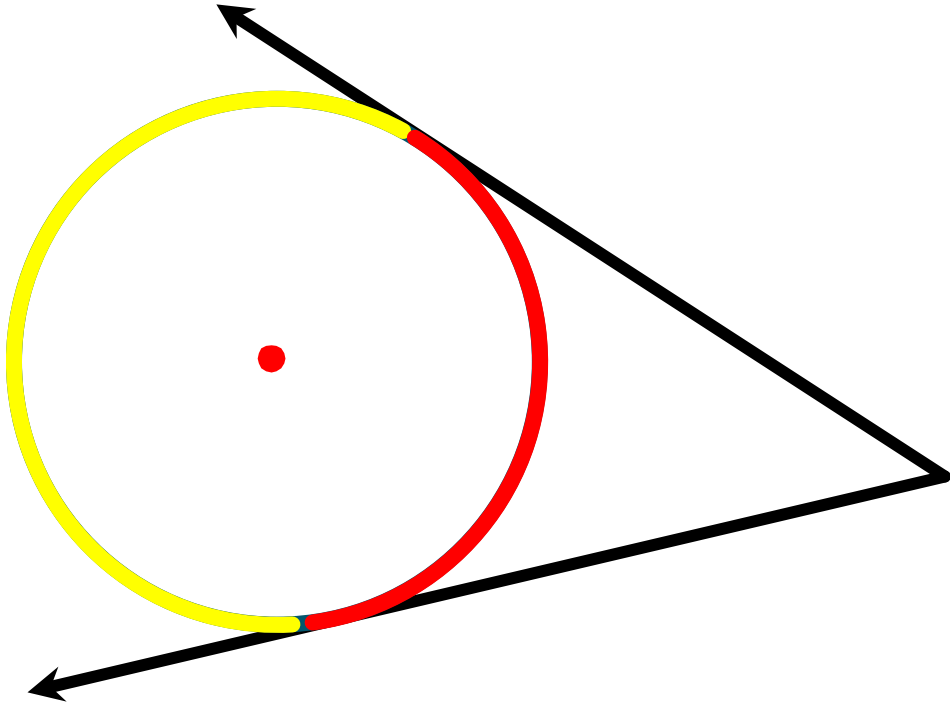
Angle/Secant Theorem



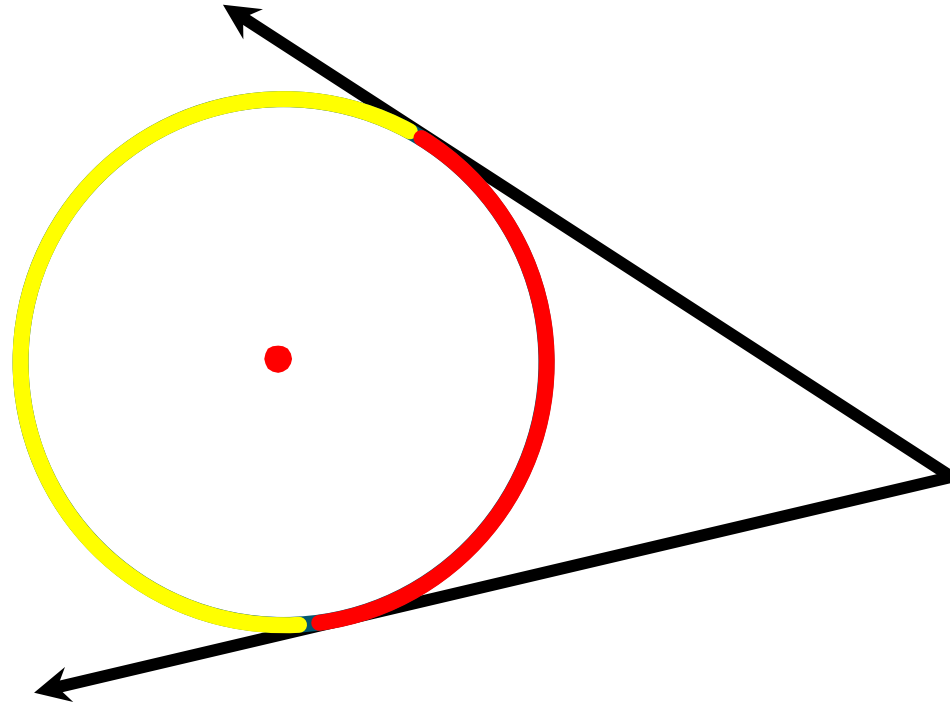
Angle/Secant Theorem

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



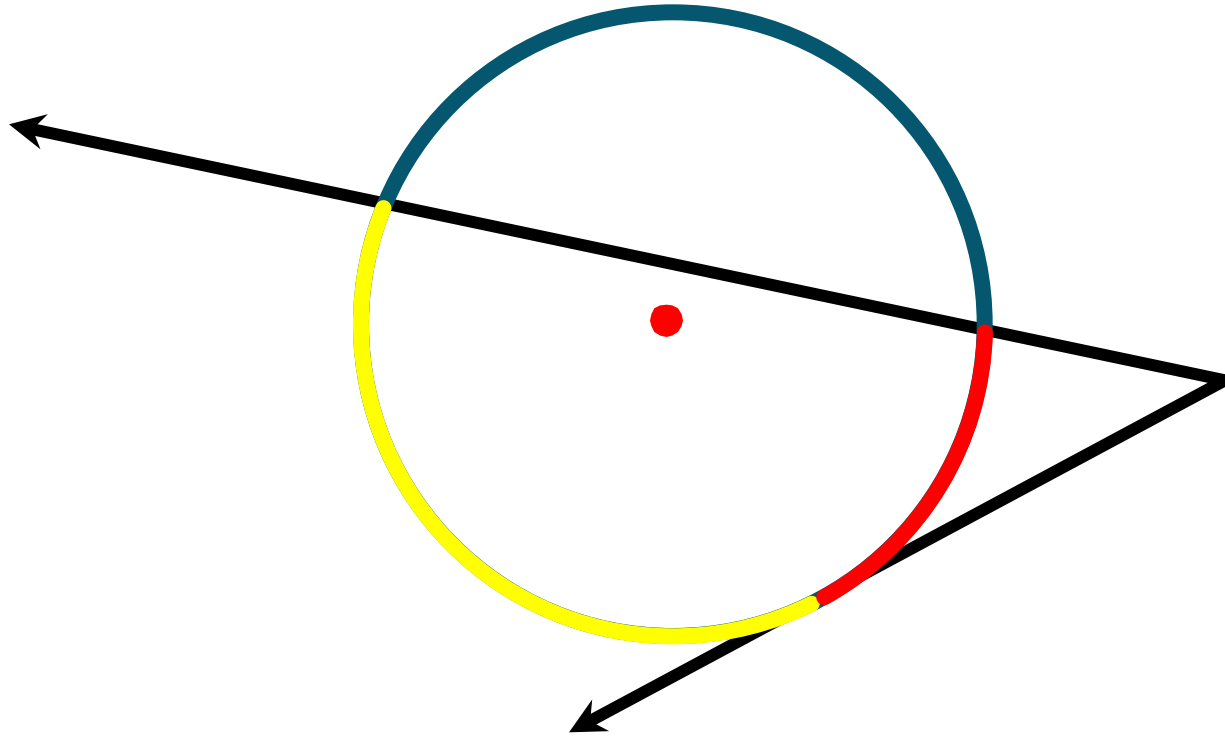
Angle/Tangents Theorem



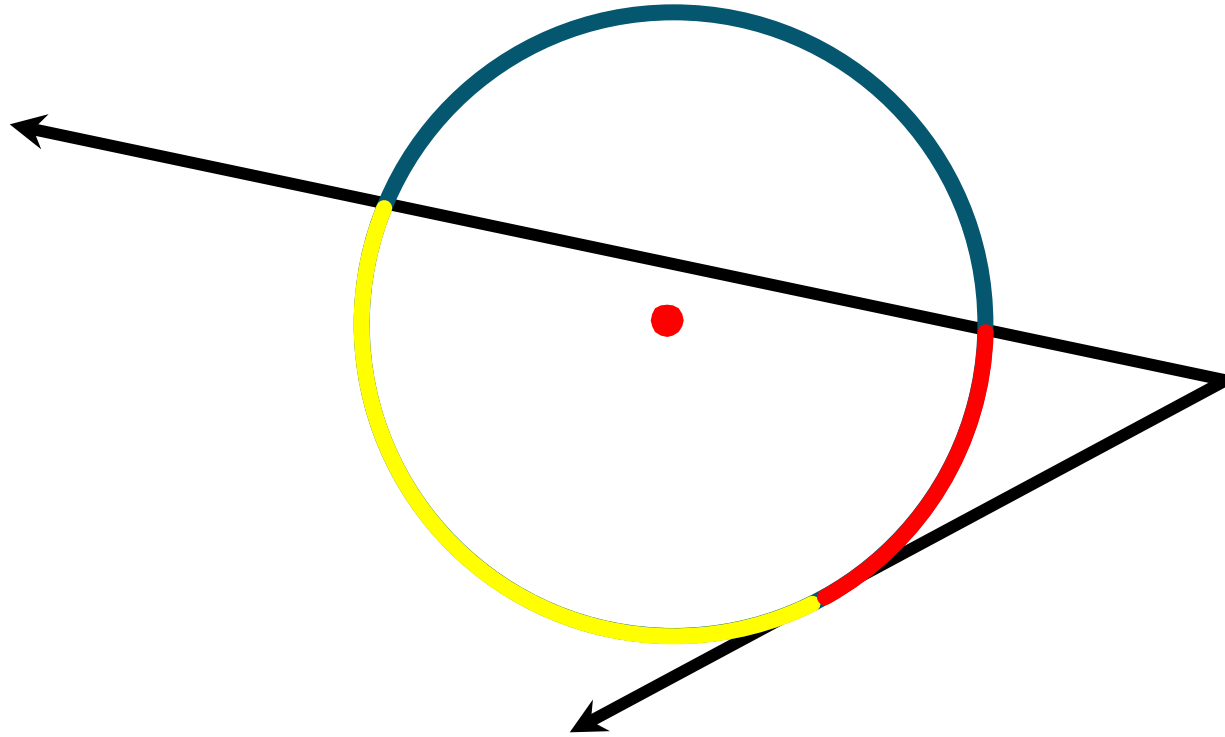
Angle/Tangents Theorem

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



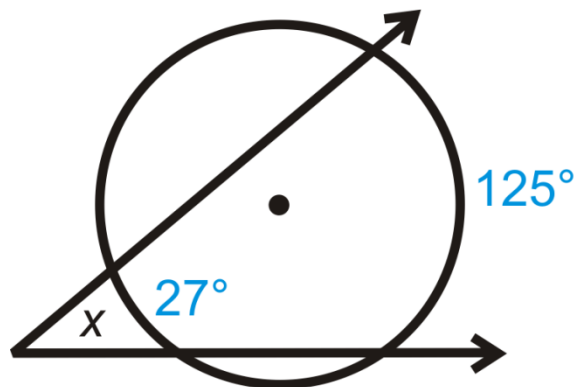
Tangent/Secant Theorem



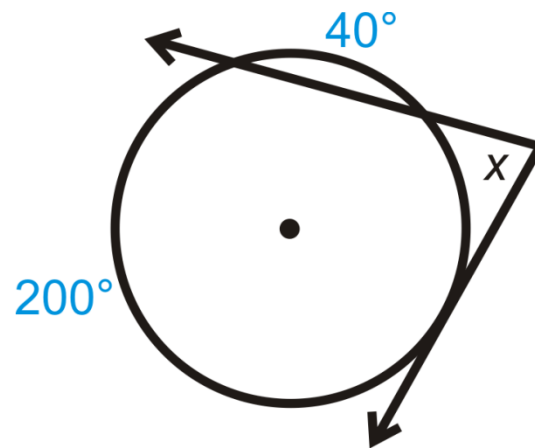
If tangents or secants intersect outside a circle, then the measure of the angle formed outside the circle is _____ the difference of the intercepted arcs

Practice

7)

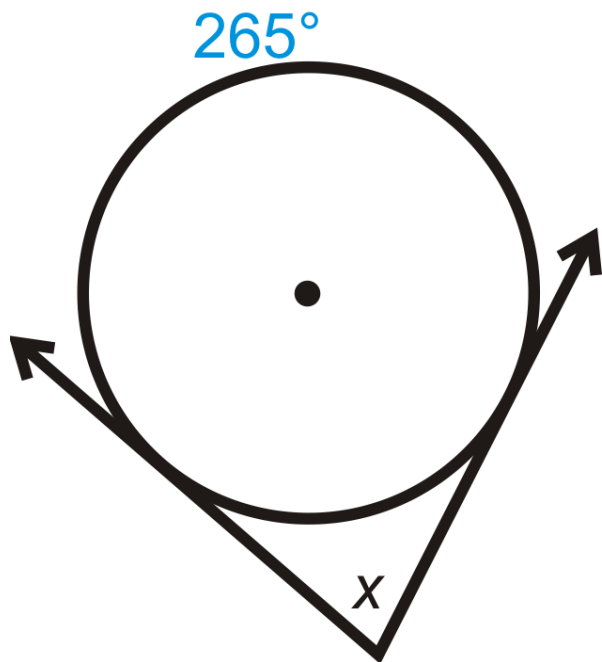


8)



Practice

9)



10)

