

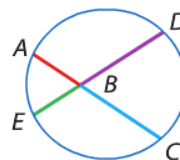
10-7

Special Segments in a Circle

Segments of Chords Theorem

If two chords intersect in a circle, then the products of the lengths of the chord segments are equal.

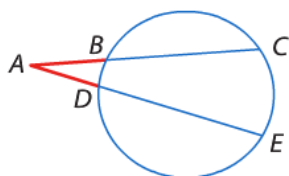
$$AB \cdot BC = DB \cdot BE$$



Secant Segments Theorem

(outer segment of one secant)(total length of one secant) =
(outer segment of second secant)(total length of second secant)

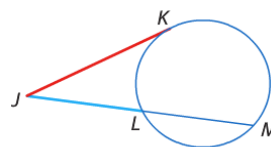
$$(AB)(AC) = (AD)(AE)$$



Tangent/Secant Theorem

(tangent)² = (outer secant)(total secant)

$$JK^2 = JL \cdot JM$$



Solve for x

