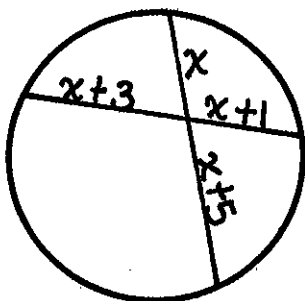
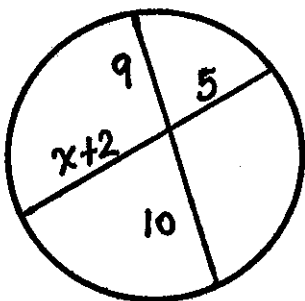
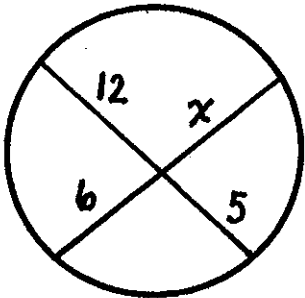
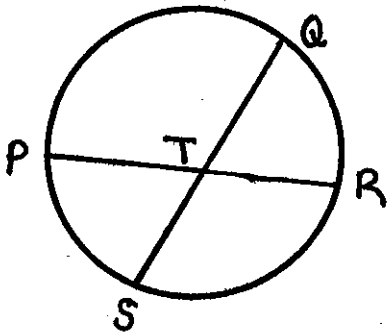


6.6 Segment Lengths of Circles

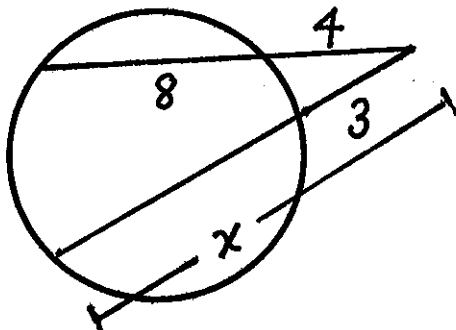
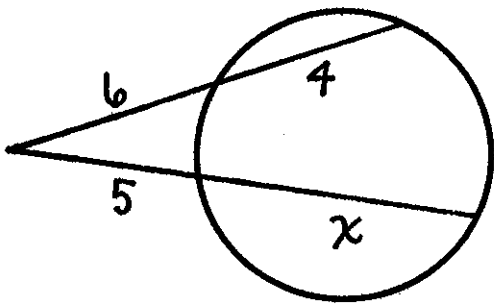
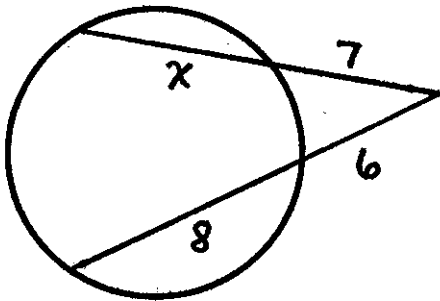
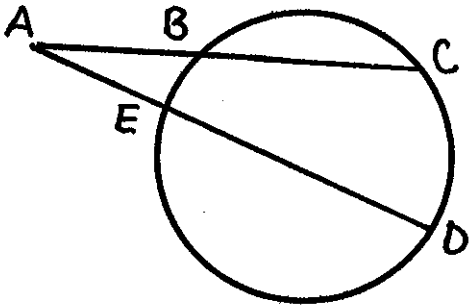
Theorem 6.16: Segments of Chords Theorem

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



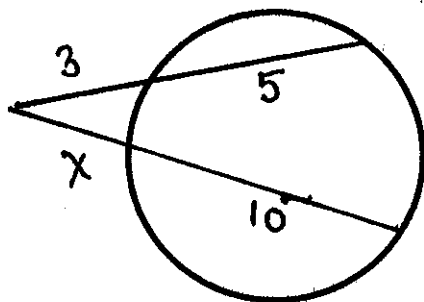
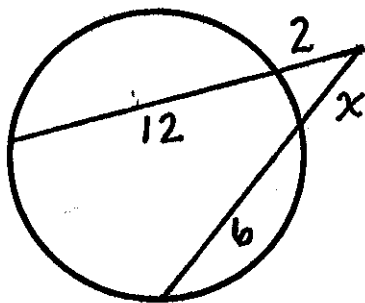
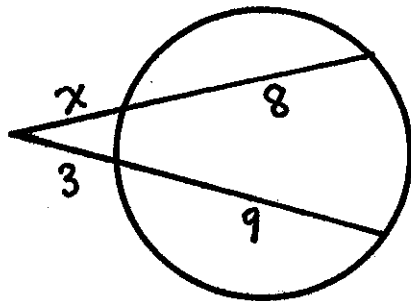
Theorem 6.17: Segments of Secants Theorem

If two secant segments share the same endpoint _____ a circle, then the product of the lengths of one _____ segment and its _____ segment equals the _____ of the lengths of the other _____ segment and its _____ segment.



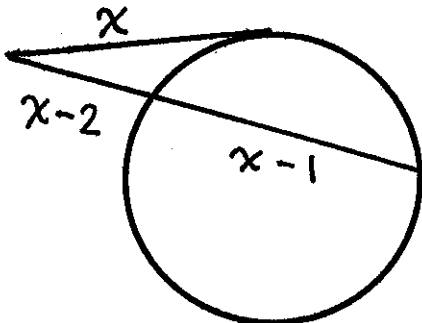
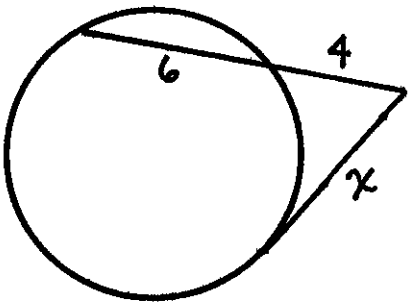
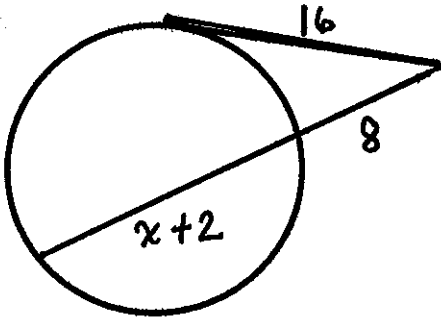
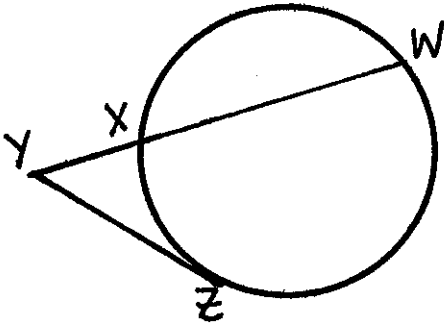
When x is the external segment, you will always have a _____ equation.

You can use the _____ to solve each equation.



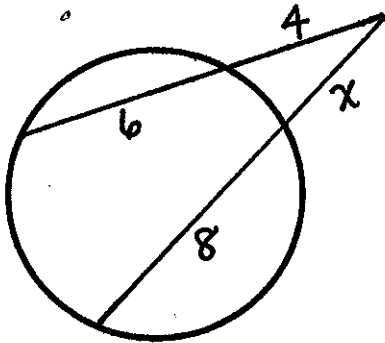
Theorem 6.18: Segments of Secants and Tangents Theorem

If a _____ and a _____ segment share an endpoint _____ a circle, then the product of the lengths of the _____ segment and its _____ segment equals the _____ of the length of the _____ segment.

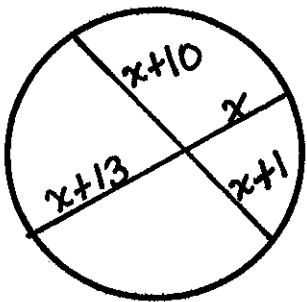


Set up an equation and solve for x .

1. $x =$



2. $x =$



3. $x =$

