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Geometry

Circles and Chords

Perpendicular Chord Bisector Theorem



Example 1:



Example 2:



Example 3:

In circle M, $\overbar{JL}⊥\overbar{HK}$; $\overbar{NK}=6, $and $\overbar{NL}=8$. Find the length of $\overbar{HL}$.



Equidistant Chords Theorem

Example 4:





Example 5:



Segments of Chords Theorem

Theorem: Given circle with intersecting chords AB and CD, then

Example 6: Example 7:



Example 8:





Example 9:

