Circles and Lengths of Segments

Main Concepts

a) When two chords intersect inside a circle, the product of the lengths of the segments of one of the chords equals the product of the lengths of the segments of the other chord.



b) When two secant segments are drawn to a circle from an external point, the product of one secant segment and its external segment equals the product of the lengths of the other secant segment and its external segment.



c) When a secant segment and a tangent segment are drawn to a circle from an external point, the product of the lengths of the secant segment and its external segment is equal to the square of the length of the tangent segment.

