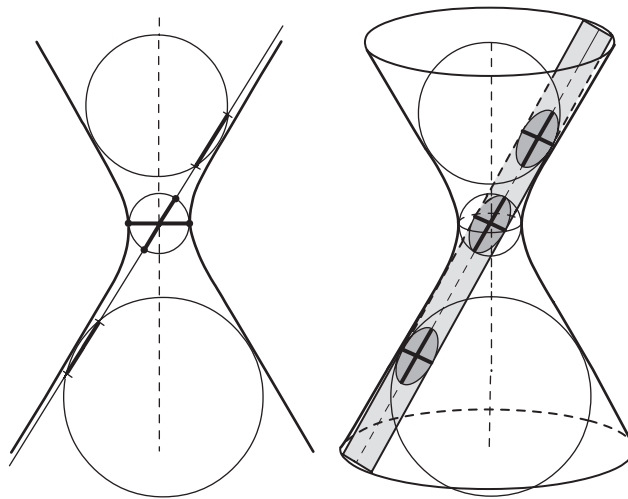


## Proof Without Words: Surprising Property of Hyperbolas

For each member of the family of hyperbolas with the same pair of vertices, every circle tangent to both branches intersects each asymptote along a chord of constant length, regardless of the location of the circle and the angle between the asymptotes. This constant length is the distance between vertices.



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