

ORTHOCENTER

Meaning: Orthocenter: the point of intersection of the altitudes of a triangle.

1. The orthocenter of a triangle is the point where all three altitudes intersect.
2. In acute triangles, the orthocenter lies inside the triangle, while in obtuse triangles, it is located outside.
3. Understanding the properties of the orthocenter can be crucial for solving various geometric problems.
4. Geometers often use the orthocenter to prove the relationships between triangle centers.
5. During the construction of a triangle, locating the orthocenter can help in visualizing its symmetry.

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