

CIRCUMCENTER

Meaning: Circumcenter: the point in a triangle where the three perpendicular bisectors of its sides intersect, equidistant from all three vertices.

1. The circumcenter of a triangle is the point where the three perpendicular bisectors intersect.
2. To find the circumcenter, one must first construct the perpendicular bisectors of at least two sides of the triangle.
3. In an acute triangle, the circumcenter lies inside the triangle, while in an obtuse triangle, it is located outside.
4. The circumcenter can also be used to determine the radius of the circumcircle that passes through all three vertices.
5. Geometric constructions often require locating the circumcenter to solve various problems related to triangles.

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