

Perpendicular Bisector

A COL

Perpendicular Bisector

A segment that is <u>both perpendicular</u> to, <u>and bisects</u>, a segment. Any given point on the perpendicular bisector is equidistant from the endpoints of the segment that it bisects (PA = PB).



Perpendicular Bisector

A segment that is <u>both perpendicular</u> to, <u>and bisects, a side of a triangle</u>. It does not have to come from a vertex.





Perpendicular Bisector

A triangle could have up to 3 perpendicular bisectors.

The point of concurrency is called the <u>circumcenter</u>. / The circumcenter is equidistant from the vertices

Practice

Find x and y.



If BD is a perpendicular bisector, find CD.





Practice

For each type of triangle: Identify the location of the circumcenter as inside, outside, or on the triangle.

