# Triangle

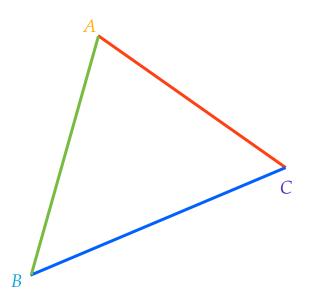
A triangle is a polygon with three sides.

3 Sides

3 Vertices

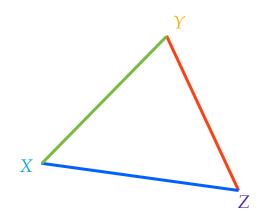
3 Angles

Name a Triangle using the 3 Vertices



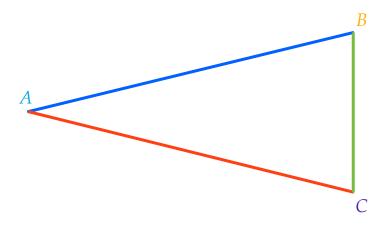
## Perpendicular Bisector

A line or segment that passes through the midpoint of a segment and is perpendicular to that segment.



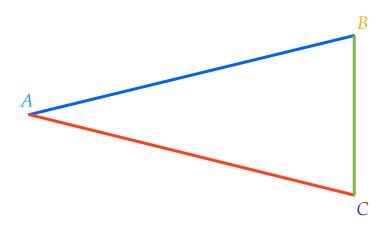
## Perpendicular Bisector Theorem

Any point on the perpendicular bisector of a segment is equidistant from the endpoints of that segment.



### Converse of Perpendicular Bisector Theorem

Any point that is equidistant from the endpoints of a segment lies on the perpendicular bisector of that segment.



Statements	Reasons	
		Given: AC is perpendicular
		bisector of $\overline{BD}$
		Prove: $\triangle ABD$ is Isosceles
		$B \longrightarrow C$

# Perpendicular Bisector

A line or segment that passes through the midpoint of a segment and is perpendicular to that segment.

#### Perpendicular Bisector Theorem

Any point on the perpendicular bisector of a segment is equidistant from the endpoints of that segment.

#### Converse of Perpendicular Bisector Theorem

Any point that is equidistant from the endpoints of a segment lies on the perpendicular bisector of that segment.