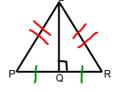
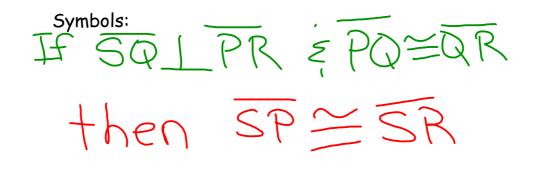
<u>Perpendicular bisector of a triangle:</u> a line or segment that is perpendicular to a side at its midpoint.

Picture:

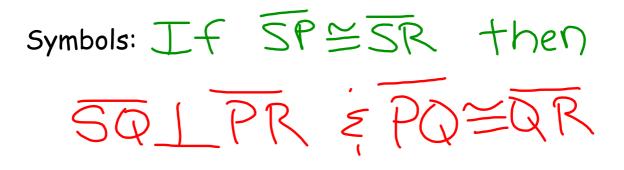


Theorem 5-1 - Perpendicular Bisector Theorem Words: Any point on the perpendicular bisector of a segment is equidistant from the endpoints of the segment.

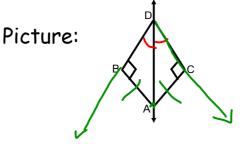


This is a converse 5.1

Theorem 5-2 Words: Any point equidistant from the endpoints of the segment lies on the perpendicular bisector of that segment.



<u>Angle bisector of a triangle:</u> a segment that extends from a vertex to the opposite, bisecting the angle.



Theorem 5-3 Words: Any point on the bisector of an angle is equidistant from the sides of the angle.



## Converse to 5.3

Theorem 5-4 Words: Any point on or in the interior of an angle and equidistant from the sides of an angle lies on the bisector of an angle.

