Special Segments in Triangles.

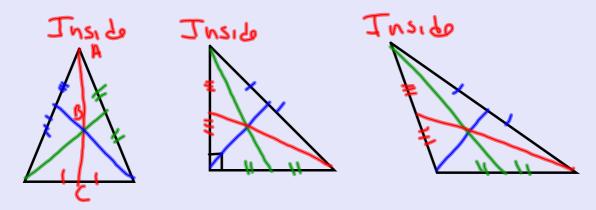
I can locate and use the properties of altitudes, angle bisectors, medians and perpendicular bisectors.

Median -

A segment from a vertex of a triangle that intersects the opposite side at the midpoint.

Centroid - The intersection of the medians.

Where is the centroid located in each type of triangle?



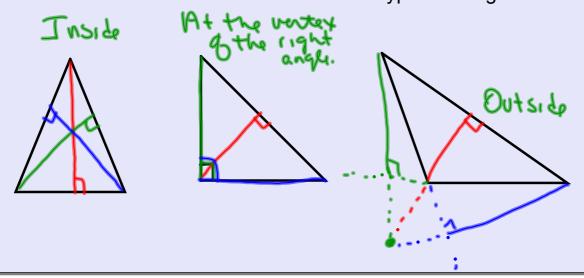
What is special about the centroid?

Altitude-

A segment from a vertex of a triangle that is perpendicular with the opposite side.

Orthocenter - The intersection of the altitudes.

Where is the orthocenter located in each type of triangle?

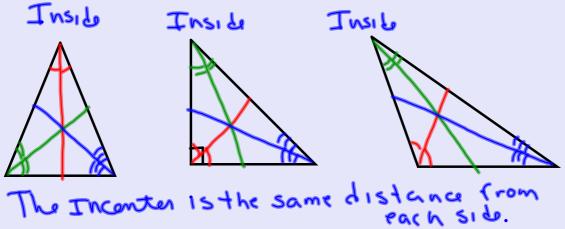


Angle Bisector -

A segment from a vertex of a triangle that bisects the angle and intersects the opposite side.

Incenter - The intersection of the angle bisectors.

Where is the incenter located in each type of triangle?



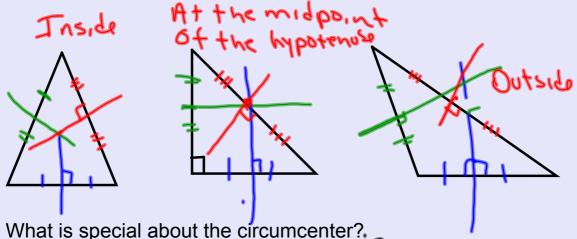
What is special about the incenter?

Perpendicular Bisector -

A segment from a vertex of the that is perpendicular to the opposite side and intersects the side at the midpoint.

Circumcenter - The intersection of the perpendicular bisectors.

Where is the circumcenter located in each type of triangle?



In what kind of triangle(s) are all of the segments the same?