H.Geometry - Chapter 3 - Definition Sheet

Section 3.8	
Definition of	Lines (or segments or rays) that <u>intersect</u> in a single point.
CONCUYVENT_lines	(Two lines are ALWAYS concurrent, but 3 lines will not always be!)
	point of concurrency
Angle Bisector Concurrency Conjecture	The three angle bisectors of a triangle are
	Incerner
<u>Trenter</u> of a triangle	The point of concurrency of the <u>4 bisectors</u> of a triangle

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L bisectors Concurrency Conjecture	The three of a triangle are concurrent.
circumcenter of a triangle	The point of concurrency of the bisectors of a triangle.
Altitude Concurrency Conjecture	The three <u>altrivdes</u> of a triangle are concurrent.
Orthocenter of a triangle	The point of concurrency of the <u>attitudes</u> of a triangle.
<u>Incenter</u> Conjecture	The <u>incenter</u> of a triangle is <u>equidistant</u> from the triangles 3 sides. (recall: angle bisector conjecture in lesson 3.4) COROLLARY: The incenter is the <u>center</u> of the triangles inscribed circle (touches each side in exactly one point.)
Circumcenter Conjecture	The <u>circumcenter</u> of a triangle is <u>equidistant</u> from the triangles 3 vertices (recall: perpendicular bisector conjecture in lesson 3.2) COROLLARY: The <u>circumcenter</u> is the <u>Center</u> of the triangles circumscribed circle (passes through each vertex of the triangle.)