

Name : _____ Score : _____

Teacher : _____ Date : _____

Constructing Altitudes of Triangles

How to construct an altitude from any vertex:

Extend the line of the side opposite to a vertex, and take up the span of the compass any point on this side.

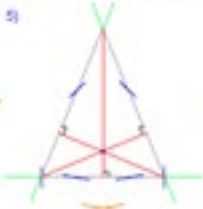
Noting the compass, make two marks above the span of the compass intersects the side opposite the vertex.

At each of these two marks that intersect the side, using any span on the compass, make the compass cut marks.

Line up a ruler from a vertex through where the ruler arcs meet. Draw a line from the vertex to the opposite side.

Repeat for the other vertices and join the point where all three altitudes meet. This is the orthocenter/concurrence point.

Locate the orthocenter of each triangle.



For each triangle, construct all three altitudes to show they are concurrent.

