

The diagram illustrates the geometric construction of the orthocenter H of a triangle ABC . The circumcircle k of the triangle is shown. The centroid G is the intersection of the medians AM and BN , where M is the midpoint of BC and N is the midpoint of AC . The orthocenter H is the intersection of the altitudes, shown as the intersection of the altitude from A to BC and the altitude from B to AC . The diagram also shows the reflection of H across the midpoints M and N to points Q and P respectively, which lie on the circumcircle k . Various angles are highlighted: blue arcs at A , C , and P ; pink arcs at Q and B ; and green right-angle symbols at H for the altitudes.

(23.92, 5.79)