

[1] Check students' work.

[2] The altitudes meet in one point.

They intersect at the vertex opposite the hypotenuse in a right triangle, inside the triangle in an acute
[3] triangle, and outside the triangle in an obtuse triangle.

[4] Check students' work.

[5] Check students' work.

[6] Answers may vary. Sample: (0,6), (-6,0), (0,-6)