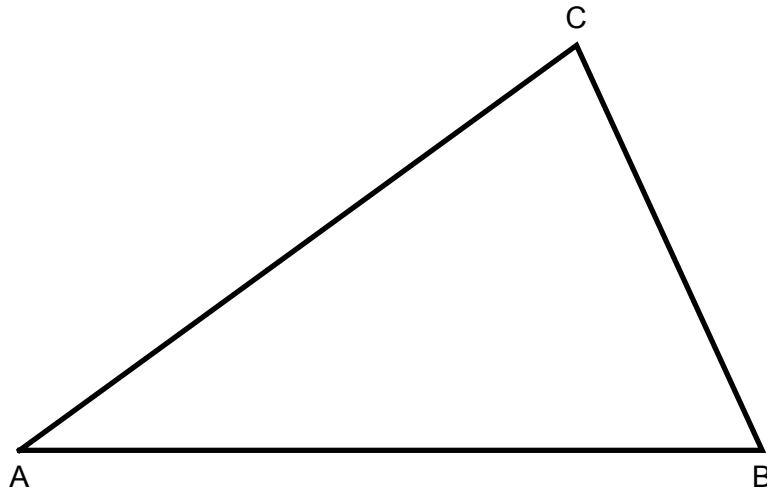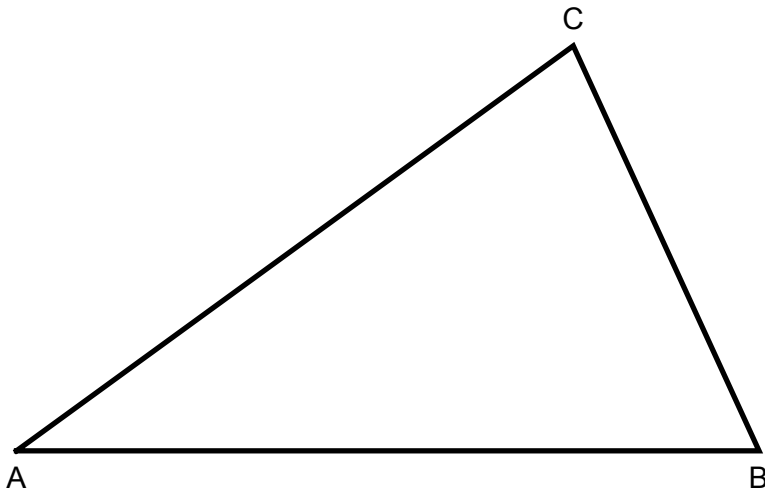# Geometry (H)
Worksheet: Medians, Altitudes, Perpendicular Bisectors, and Angle Bisectors
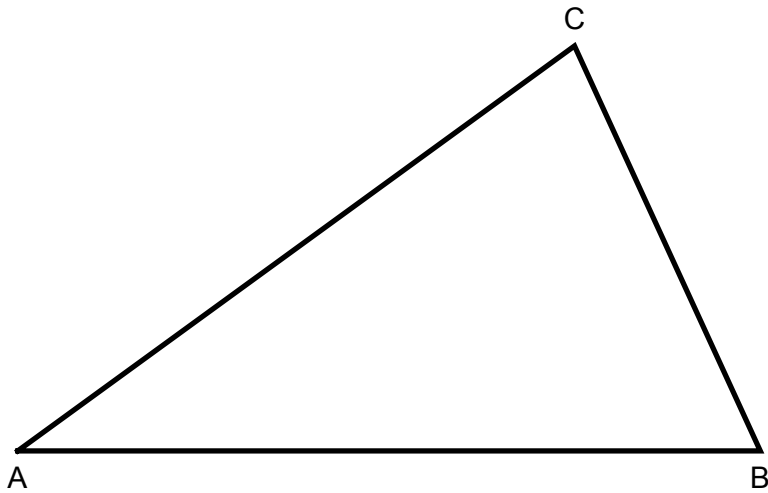
1. Use a compass and straightedge to construct the median from each vertex of the triangle. The **median** is the segment connecting each vertex to the midpoint of the side opposite the vertex.
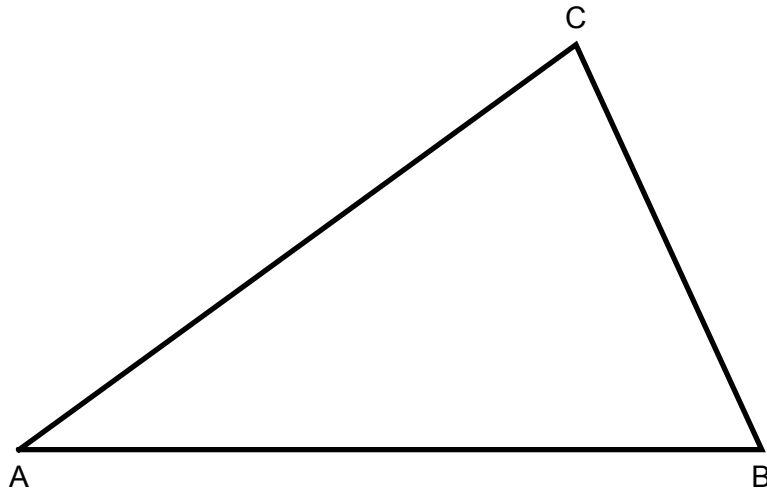
C

A   B

2. Use a compass and straightedge to construct the altitude from each vertex. The **altitude** is the segment from the vertex perpendicular to the line containing the side opposite the vertex.

3. Use a compass and straightedge to construct the **perpendicular bisector** of each side of the triangle.

4. Use your compass and straightedge to construct the **angle bisector** of each angle of the triangle.

If you were very careful with each of your constructions you should notice something about the three segments you constructed on each triangle. What is your hypothesis? Do you notice anything else? Investigate further and see what you can discover.