



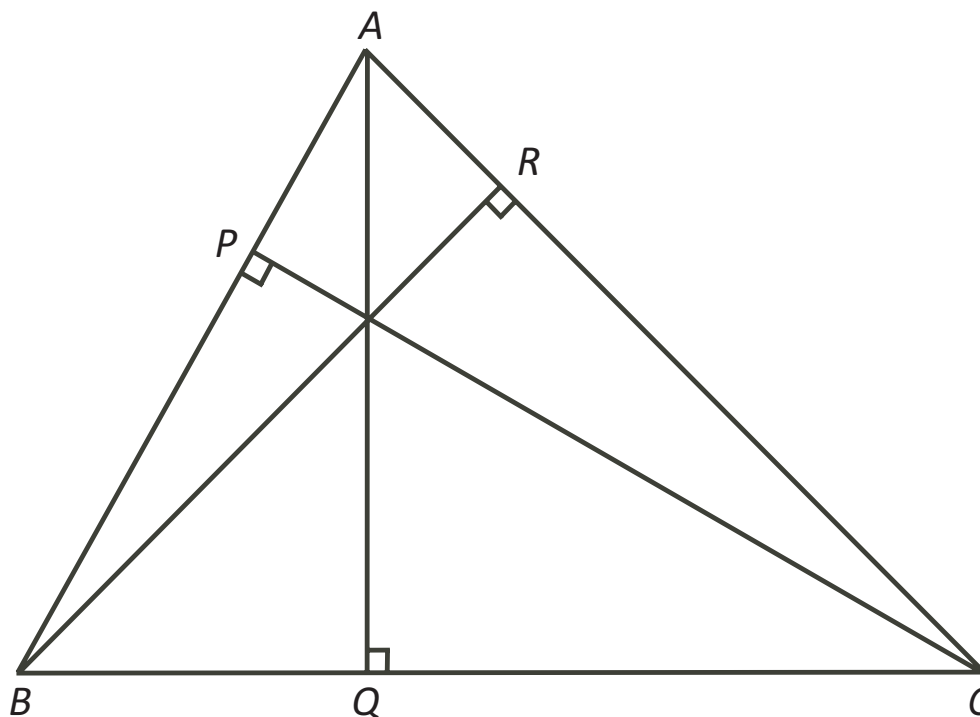
Problem of the Week

Problem E

From Altitudes to Angles to Sides

In $\triangle ABC$, $\angle BAC$ is the largest angle and $\angle ACB$ is the smallest angle. AQ , BR , and CP are altitudes with lengths 21 cm, 24 cm, and 56 cm, respectively.

Determine the size of $\angle ABC$ and the lengths of the sides of $\triangle ABC$.



The diagram is not necessarily drawn to scale.

