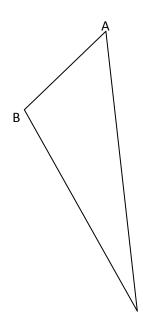
Proving Triangle Theorems - Step-by-Step Lesson

Prove: Triangle Sum Theorem

Given:

Prove:



С

Explanation:

The sum of the measures of the angles of a triangle is 180°.

$$\angle A + \angle B + \angle C = 180^{\circ}$$

$$42^{\circ} + 105^{\circ} + \angle C = 180^{\circ}$$

$$\angle C = 180^{\circ} - 157^{\circ}$$