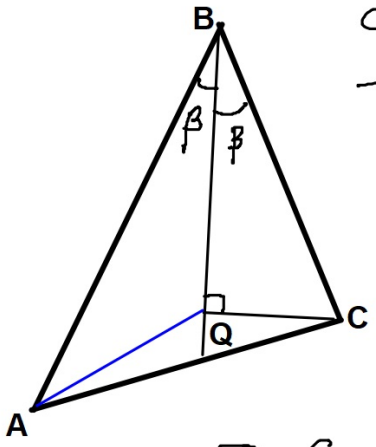

Доказать: $S_{\Delta ABC} : S_{\Delta ABQ} = 2$

$S_{\Delta ABC} = 0.5 \cdot AB \cdot BC \cdot \sin 2\beta = 0.5\, AB \cdot BC \cdot 2\sin\beta\cos\beta$

$S_{\Delta ABQ} = 0.5 \cdot AB \cdot BQ \cdot \sin\beta$

Из $\Delta BQC \Rightarrow BQ = BC \cdot \cos\beta$

$\Rightarrow S_{\Delta ABQ} = 0.5 \cdot AB \cdot BC \cdot \cos\beta \cdot \sin\beta$

$$\Rightarrow \frac{S_{\Delta ABC}}{S_{\Delta ABQ}} = \frac{0.5 \cdot AB \cdot BC \cdot 2\sin\beta\cos\beta}{0.5 \cdot AB \cdot BC \cdot \sin\beta\cos\beta} = 2$$