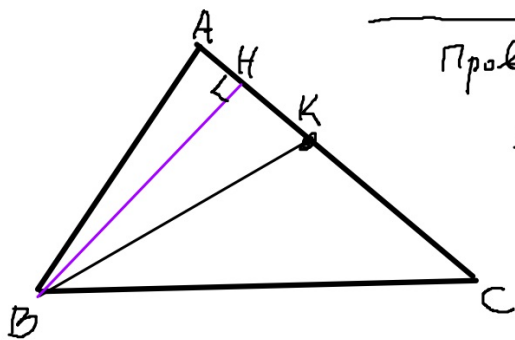


Дано: $AK:KC = 2:3$ $S(\triangle BKC) = 36 \text{ cm}^2$

$S(\triangle ABK) = ?$



Проведем высоту BH.

$$S_{\triangle ABK} = \frac{AK \cdot BH}{2}$$

$$S_{\triangle BKC} = \frac{KC \cdot BH}{2} = 36$$

$$\frac{S_{\triangle BKC}}{S_{\triangle ABK}} = \frac{KC}{AK} = \frac{36}{S_{\triangle ABK}} = \frac{3}{2}$$

$$\Rightarrow S_{\triangle ABK} = 36 \cdot 2 : 3 = 24 \text{ cm}^2$$