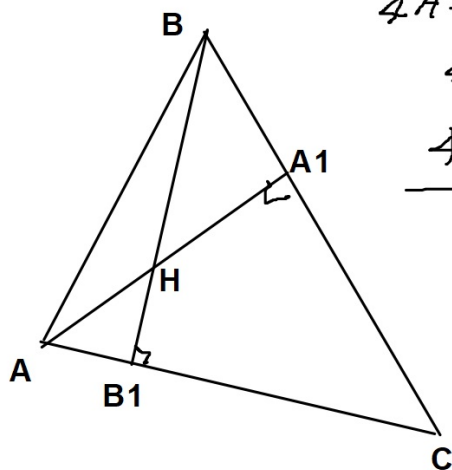




$$\angle A = 80^\circ \quad \angle B = 70^\circ$$

AA_1 и BB_1 — высоты

$$\angle B_1HA_1 = ?$$

$$BB_1 - \text{высота} \Rightarrow \angle BB_1C = 90^\circ = \angle HB_1C$$

$$AA_1 - \text{высота} \Rightarrow \angle AA_1C = 90^\circ = \angle HA_1C$$

$$\angle C = \angle A_1CB_1 = 180^\circ - \angle A - \angle B = 180^\circ - 80^\circ - 70^\circ = 30^\circ$$

Рассмотрим 4-х угольник B_1HA_1C .

$$\text{Сумма углов 4-х угольника} = 360^\circ$$

$$\Rightarrow \angle C + \angle B_1HA_1 + \angle HB_1C + \angle HA_1C = 30^\circ + 90^\circ + 90^\circ + \angle B_1HA_1 = 360^\circ$$

$$\Rightarrow 210^\circ + \angle B_1HA_1 = 360^\circ \Rightarrow \underline{\angle B_1HA_1 = 150^\circ}$$