

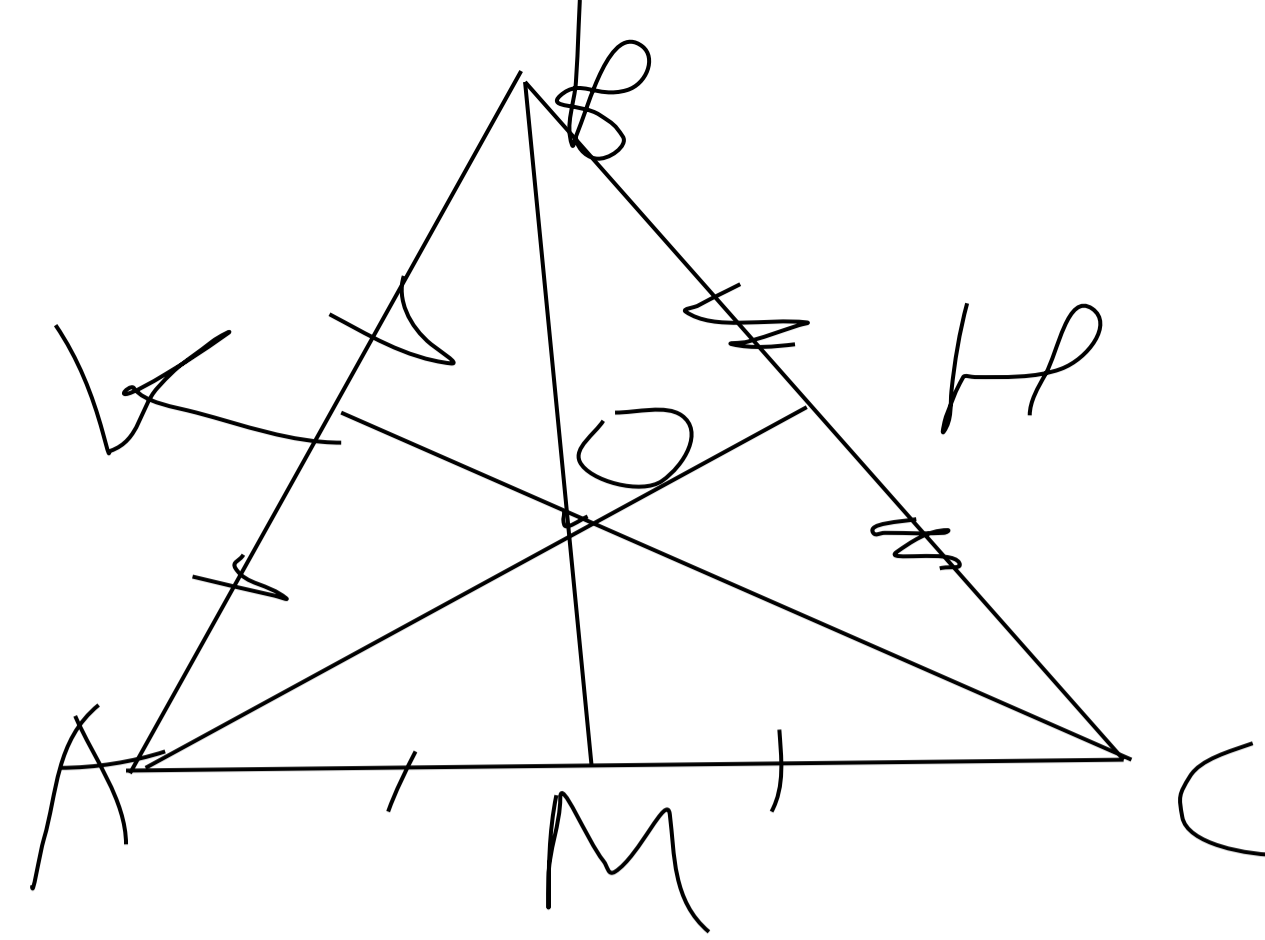
АН, ВМ, СК - медианы

тогда

$$AB/2/AB/2 * BC/2/BC/2 * AC/2/AC/2 = 1$$

$$1=1$$

справедливо.



СК, ВМ, АН - биссектр

$$AK/KB = AC/BC$$

$$BH/HC = AB/AC$$

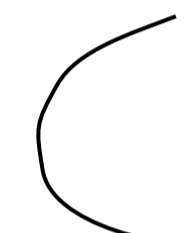
$$AM/MC = AB/BC$$

ТОГДА

$$a/b * c/d * e/f = 1$$

$$AC/BC * AB/AC * BC/AB = 1$$

$$1=1 \text{ верно}$$



Проведем МК

ВАН ~ АКС по А и h

$$AK/AM = AC/AB = KC/BM$$

АКМ ~ АВС по А и  $AK/AC = AM/AB$

КВН ~ АВС

МНС ~ АВС

$$AK/AC = AM/AB = KM/BC$$

$$KB/BC = BH/AB = KN/AC$$

$$CH/AC = CM/CB = HM/AB$$

$$(AK * BH * CM) / (AC * BC * AB) = KB/BC * HC/AC * AM/AB$$

$$AK/KB * BH/HC * CM/AM = 1$$

