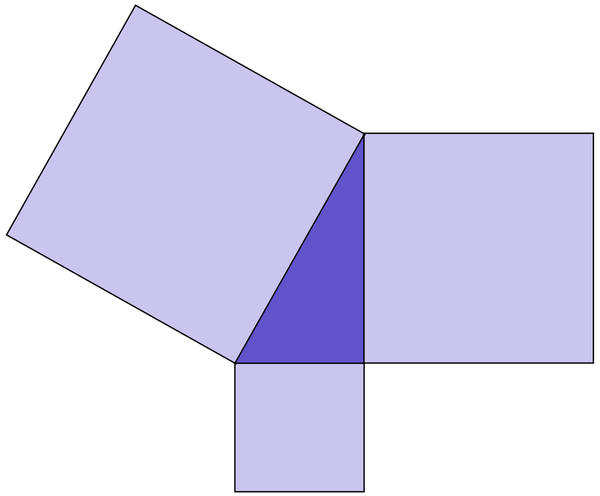
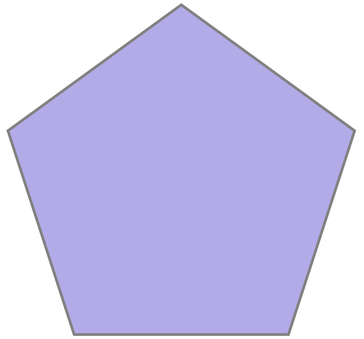
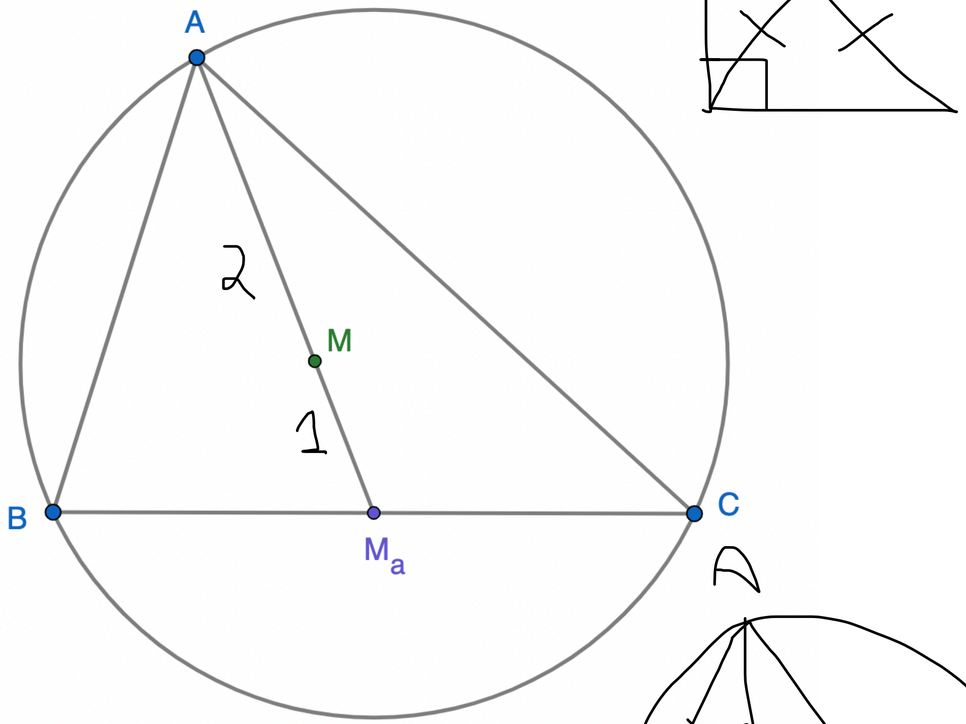


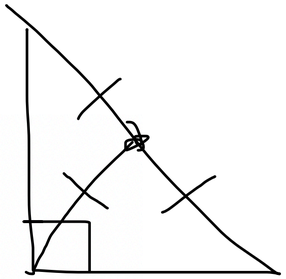


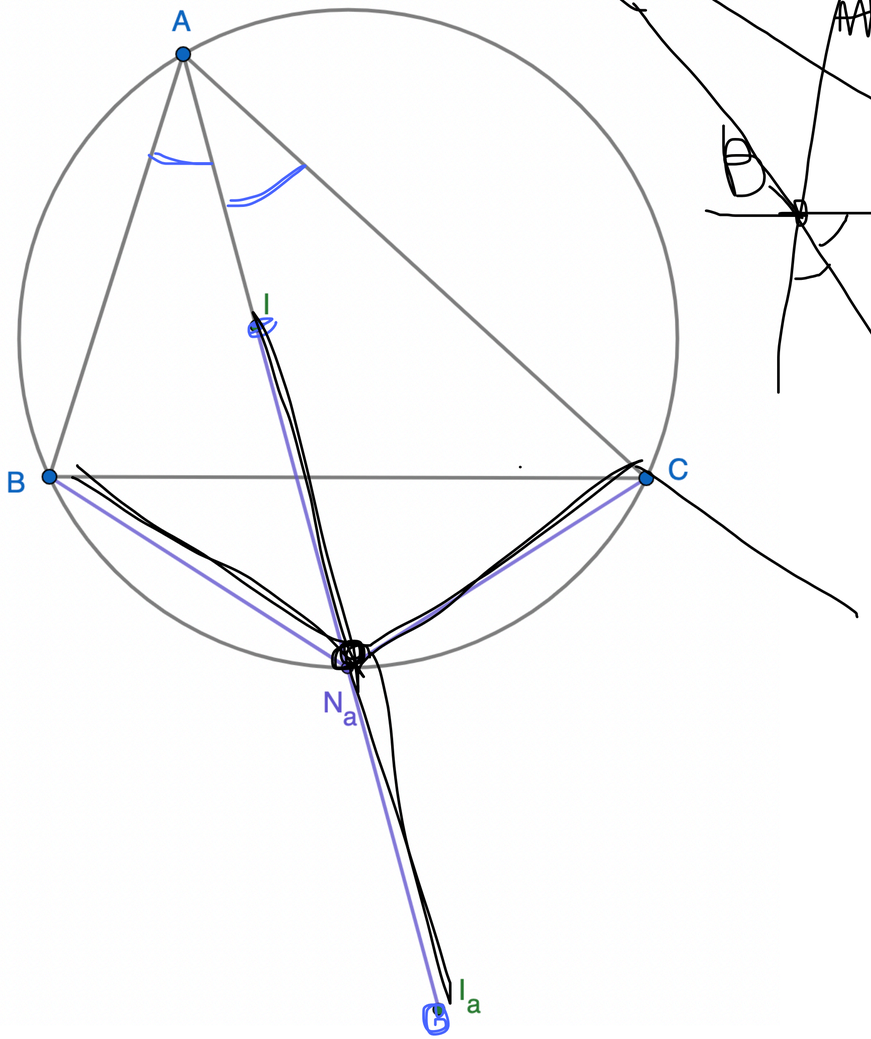
# Эконом. способы построения

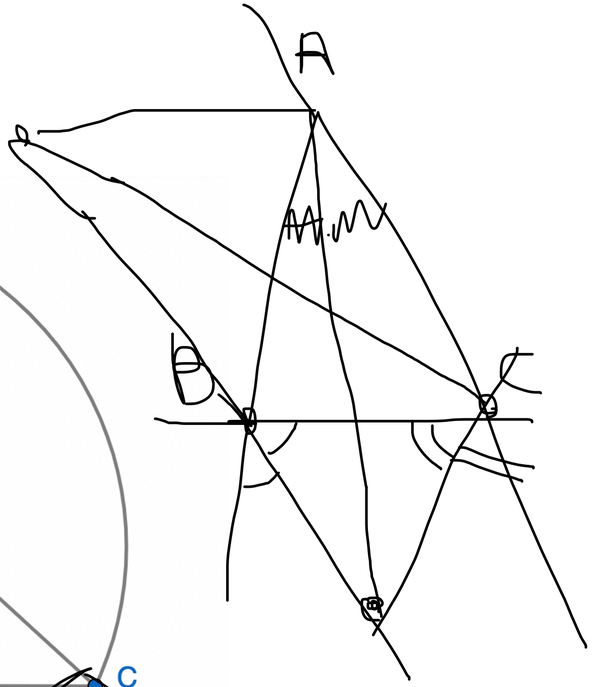
Кухарчук Иван Андреевич

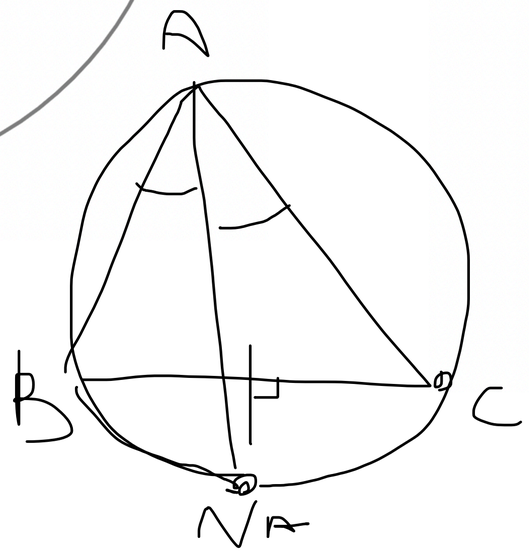
# Центроид и инцентр



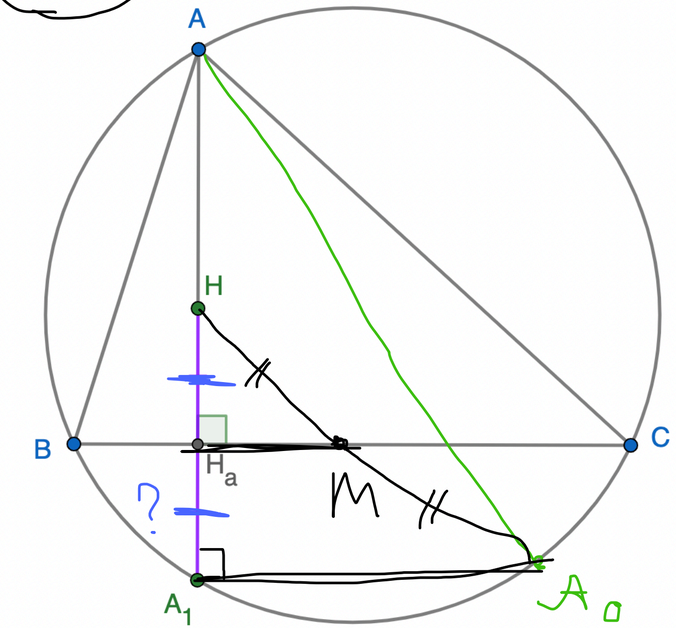


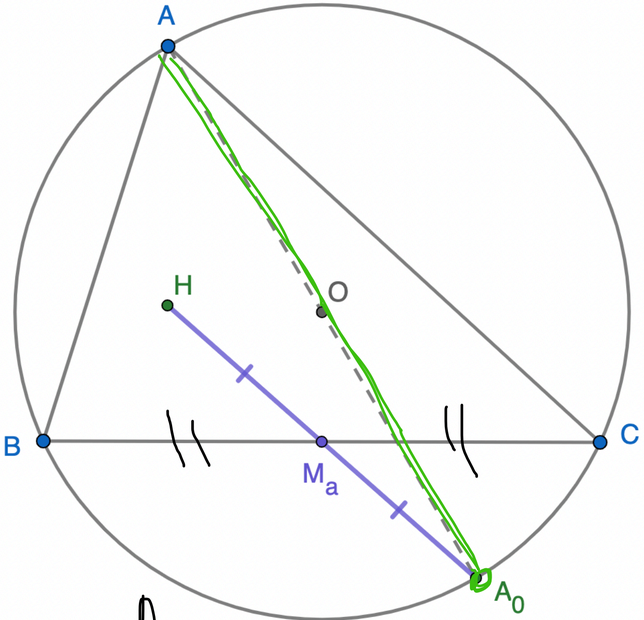



# Способы построения ортоцентра

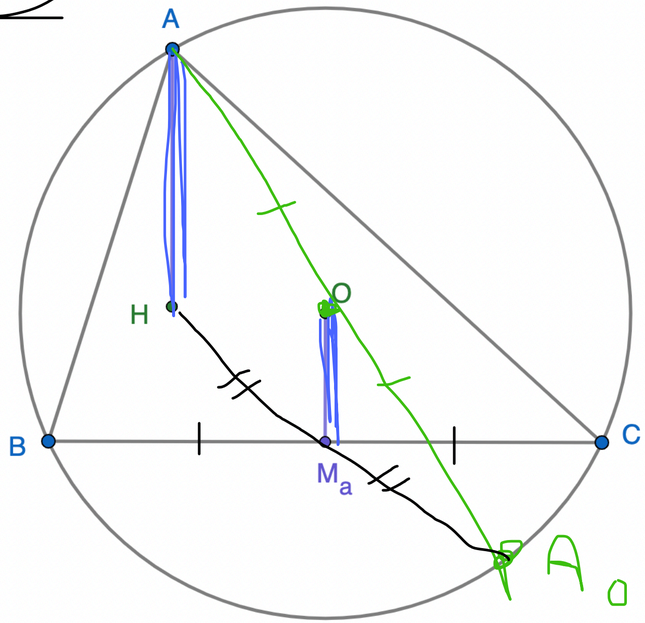
I



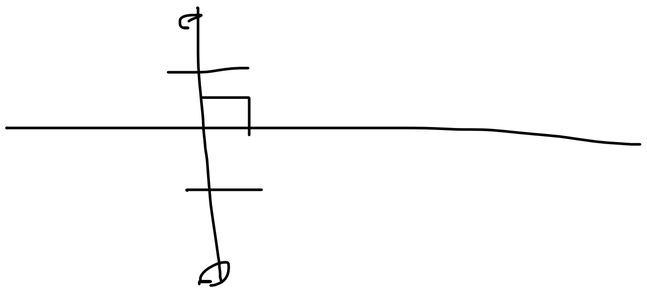

II

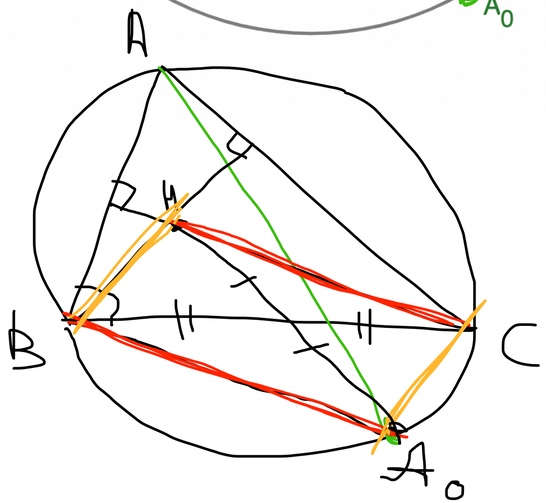


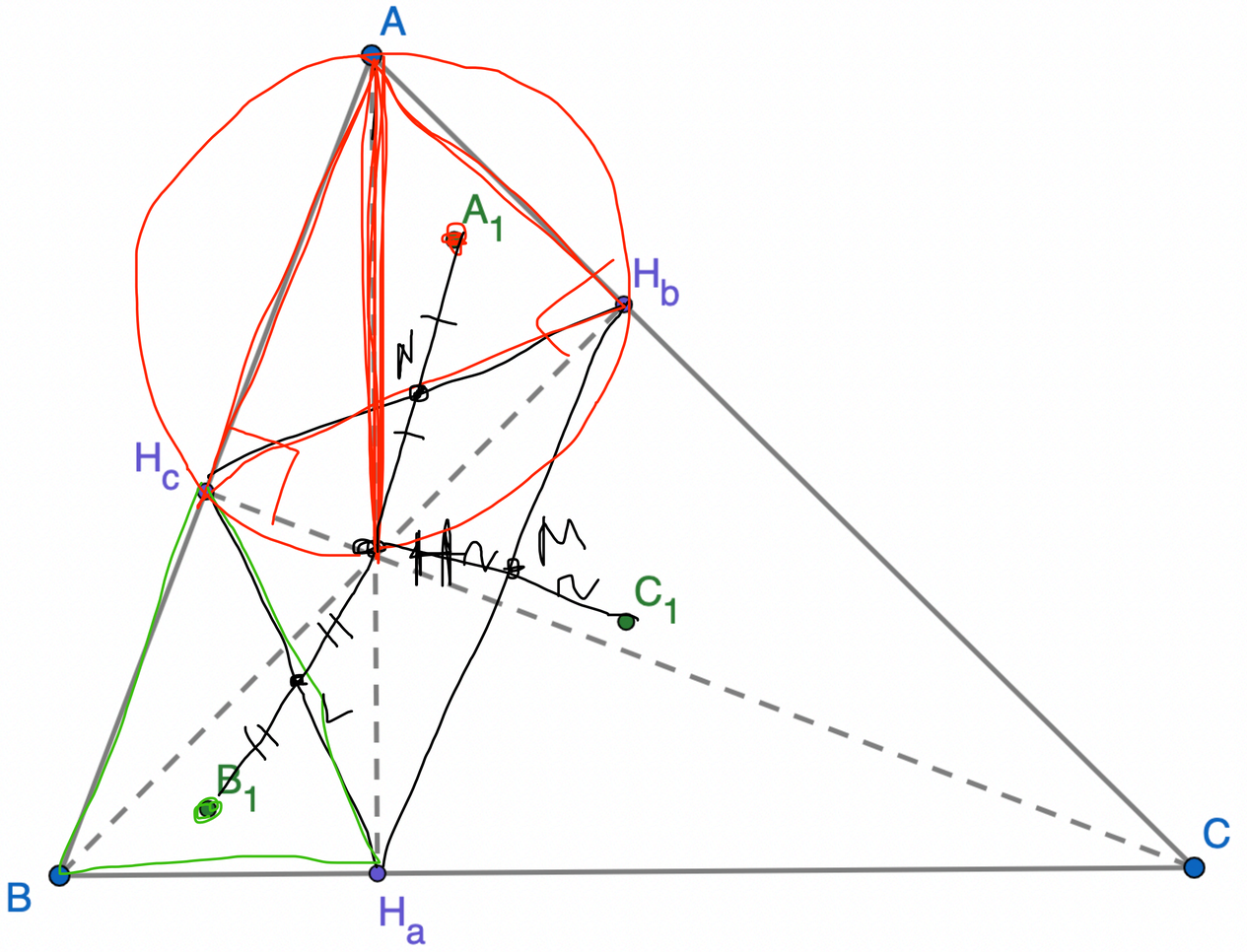

III




$AM = 2OM_a$





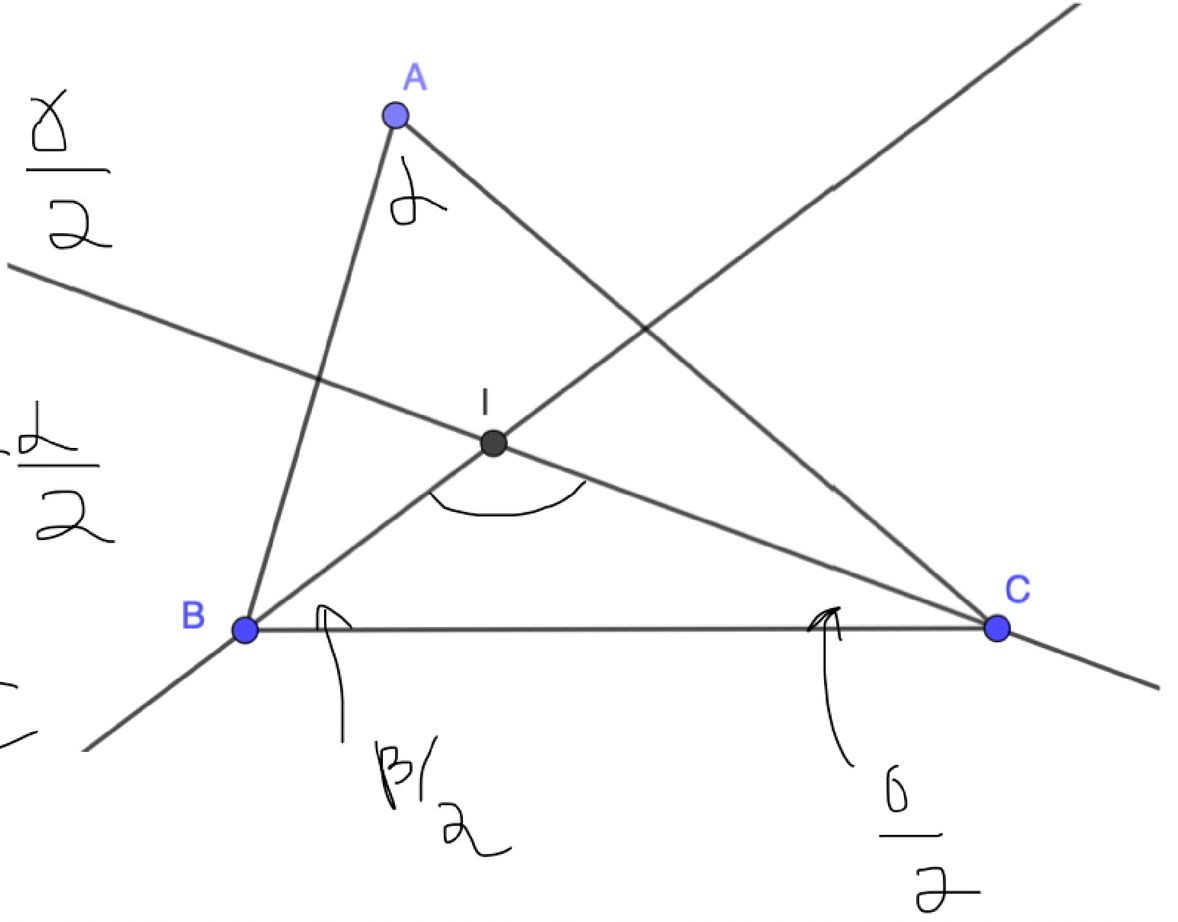

A
$A_1$
$H_b$
$H_c$
$C_1$
$B_1$
B
$H_a$
C

# Угол между биссектрисами

Имеет место $\angle BIC = 90^\circ + \frac{\angle BAC}{2}$.

Или $2\angle BIC - \angle BAC = 180^\circ$

$180^\circ - \frac{\beta}{2} - \frac{\alpha}{2}$

$= 180^\circ - \frac{\beta + \alpha + \alpha}{2} + \frac{\alpha}{2}$

$= 90^\circ + \frac{\alpha}{2}$