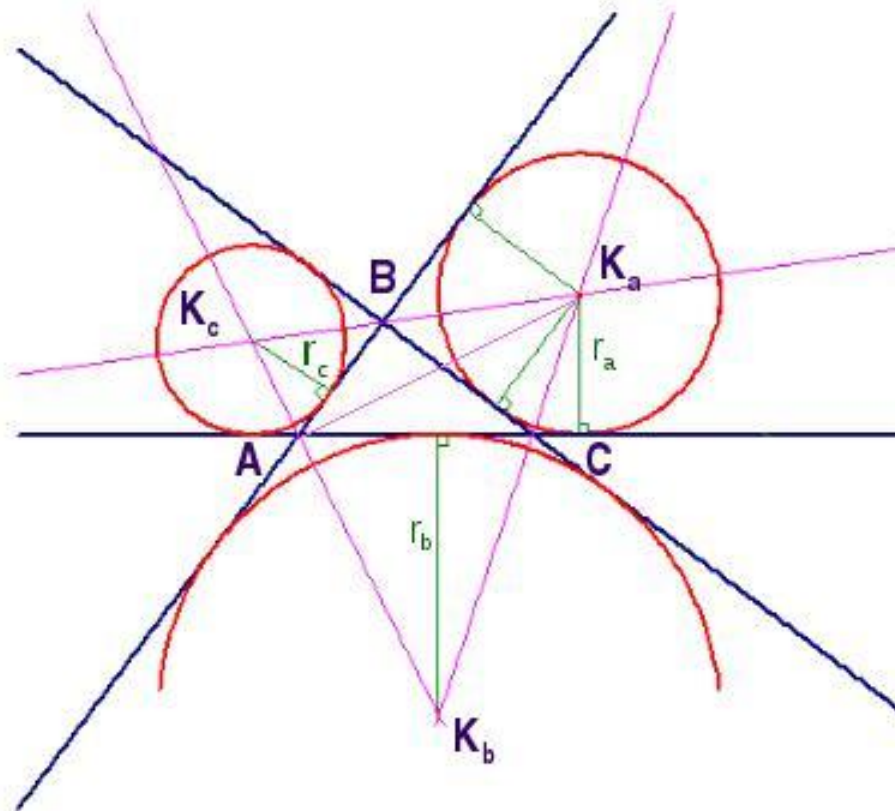


# Вневписанная окружность



$$\begin{aligned}
 S &= S_{\triangle ABC} = S_{\triangle BFO} + S_{\triangle BHO} - S_{\triangle AFO} - S_{\triangle AGO} - S_{\triangle CGO} - S_{\triangle CHO} = \\
 &= \frac{1}{2} \cdot r_b \cdot FB + \frac{1}{2} \cdot r_b \cdot BH - \frac{1}{2} \cdot r_b \cdot AF - \frac{1}{2} \cdot r_b \cdot AG - \frac{1}{2} \cdot r_b \cdot CG - \frac{1}{2} \cdot r_b \cdot CH = \\
 &= \frac{1}{2} \cdot r_b \cdot p + \frac{1}{2} \cdot r_b \cdot p - \frac{1}{2} \cdot r_b (AF + AG + CG + CH) = r_b \cdot p - \frac{1}{2} \cdot r_b \cdot 2 \cdot b = \\
 &= r_b (p - b).
 \end{aligned}$$

