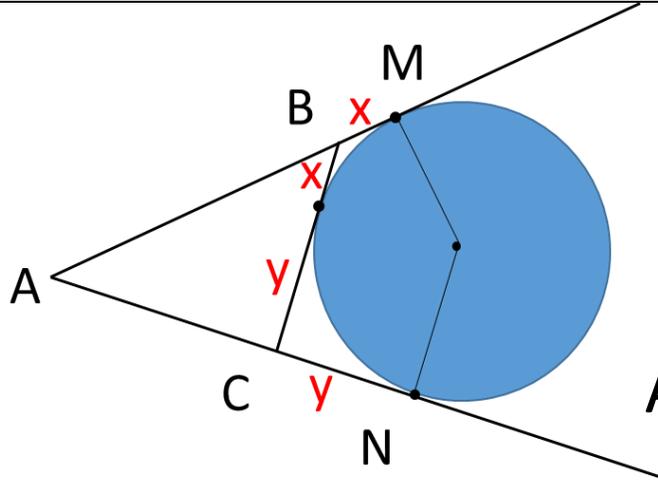
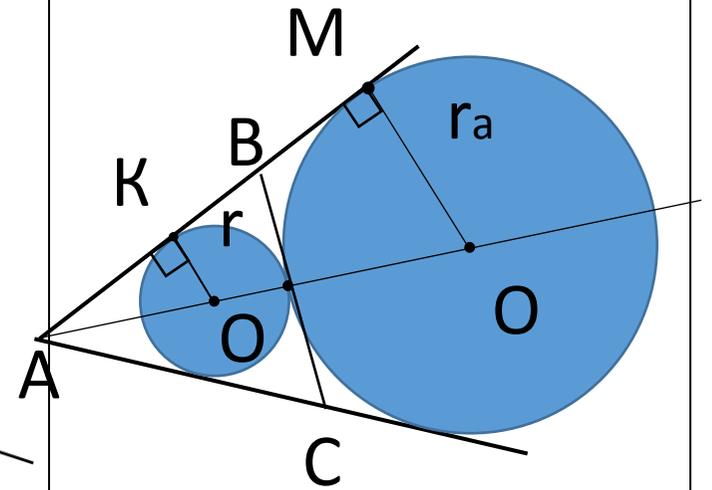


$$AK = \frac{P}{2} - a$$



$$AM = \frac{P}{2}$$



$$r = \frac{\left(\frac{P}{2} - a\right)r_a}{\frac{P}{2}}$$

$$r_a = \frac{S_{\triangle ABC}}{\left(\frac{P}{2} - a\right)}$$