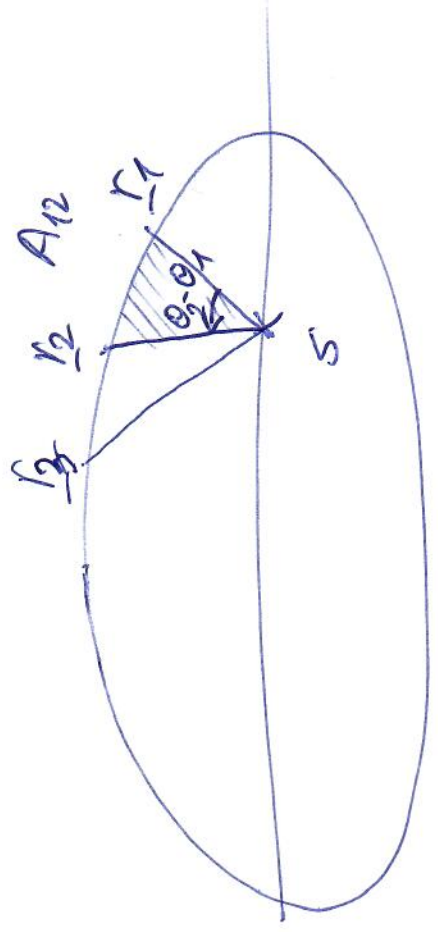
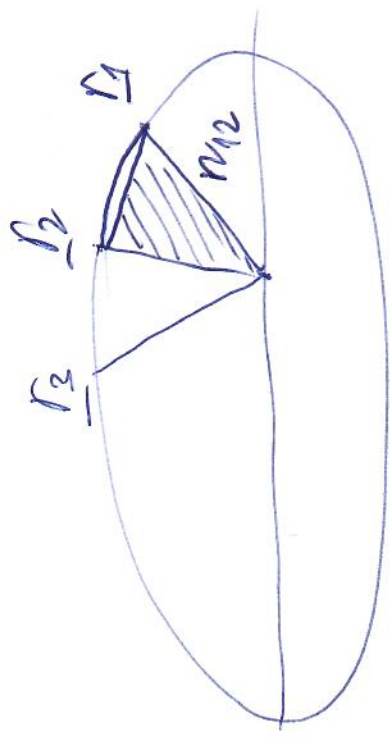
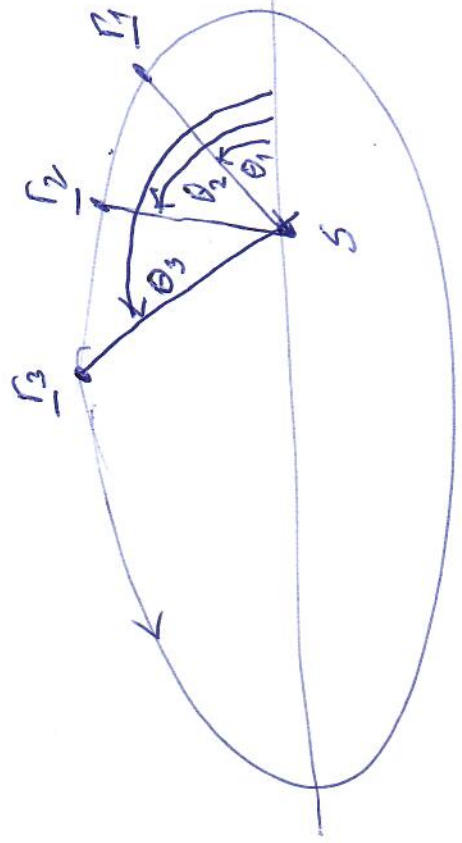


15b)

$$t_3 > t_2 > t_1$$



$$A_{12} = k(t_2 - t_1) \sqrt{P} = k t_2 \sqrt{P}$$

$$\frac{A_{12}}{n_{12}} = \eta_{12}$$

$$\frac{A_{23}}{n_{23}} = \eta_{23}$$

$$\frac{A_{13}}{n_{13}} = \eta_{13}$$