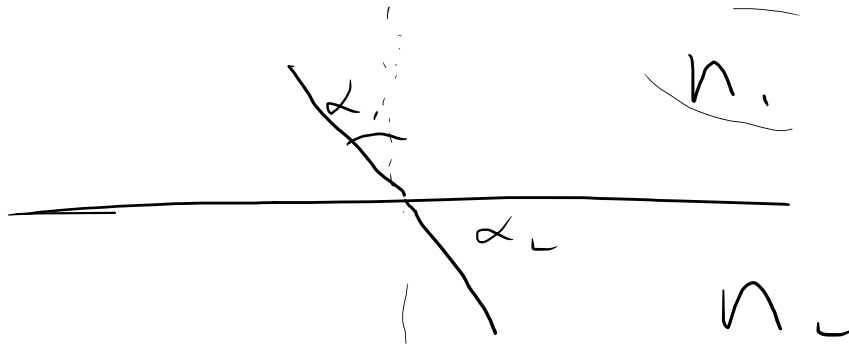
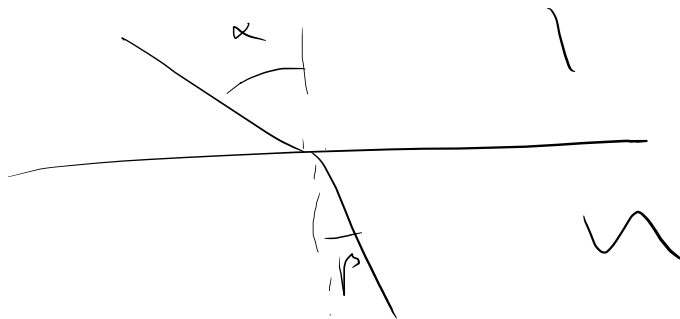


Преломление

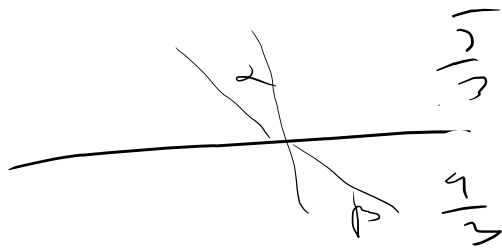


$$\frac{\sin \alpha_1}{\sin \alpha_2} = \frac{n_2}{n_1}$$

$$\sin \alpha_1 n_2 = \sin \alpha_2 n_1$$



$$\frac{\sin \alpha}{\sin \beta} = \frac{n}{1}$$

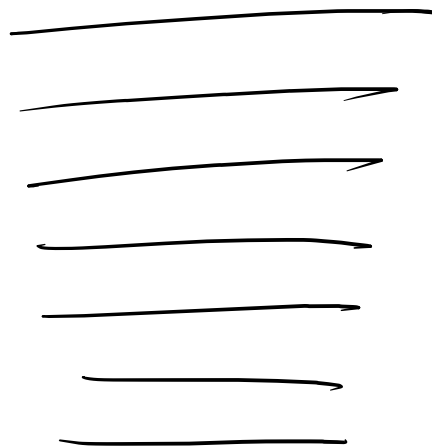
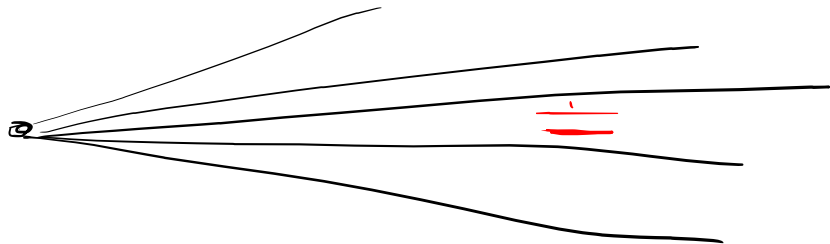
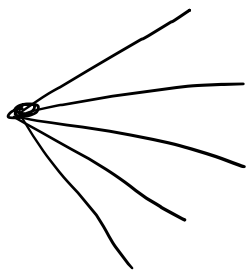


$$\alpha_{max} \rightarrow \alpha_{\frac{4}{5}} = \frac{5}{3} \rho$$

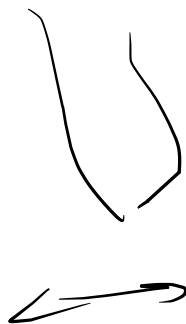
\Rightarrow

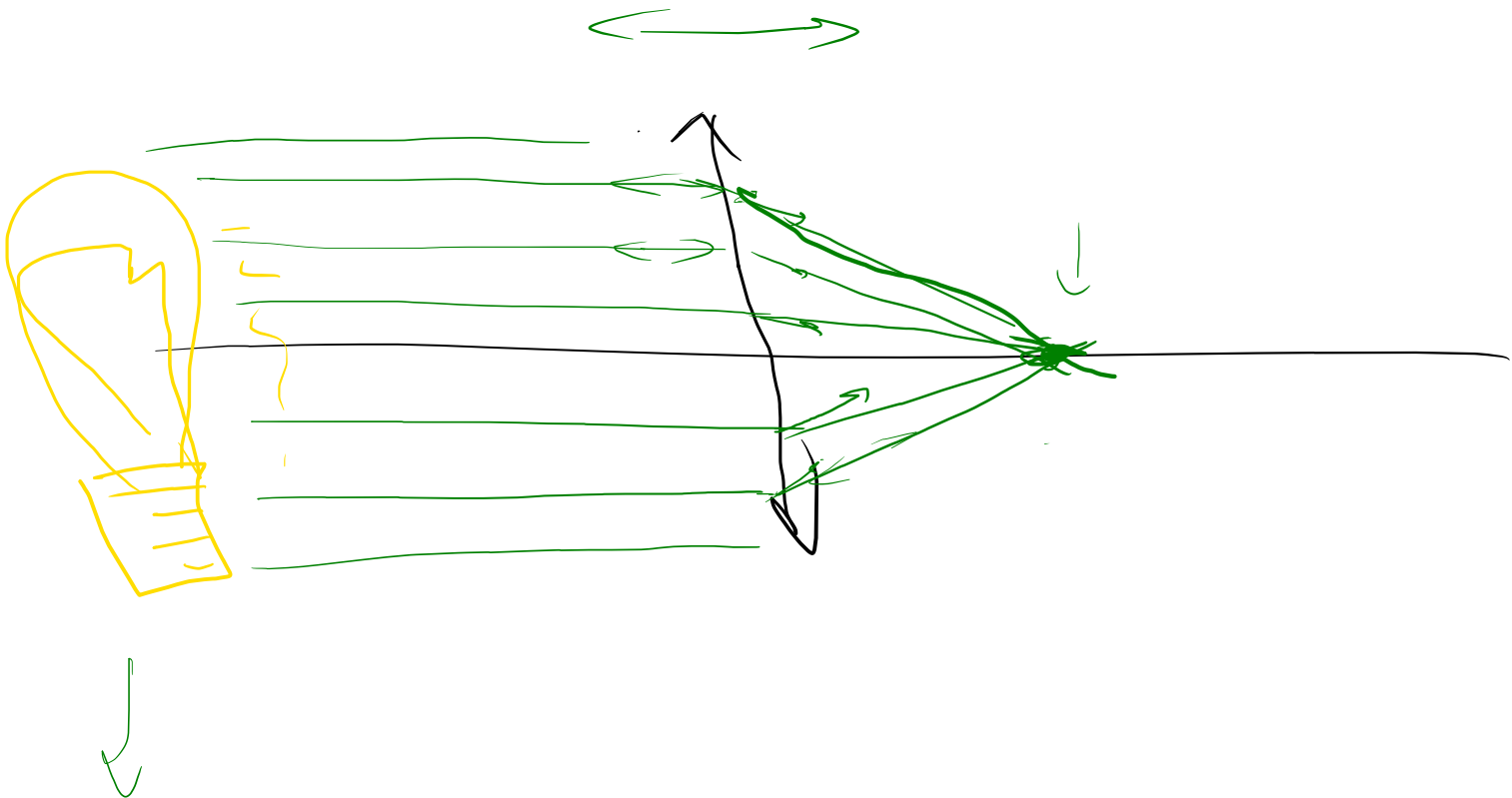
$$\alpha_{\frac{4}{5}} = \rho$$

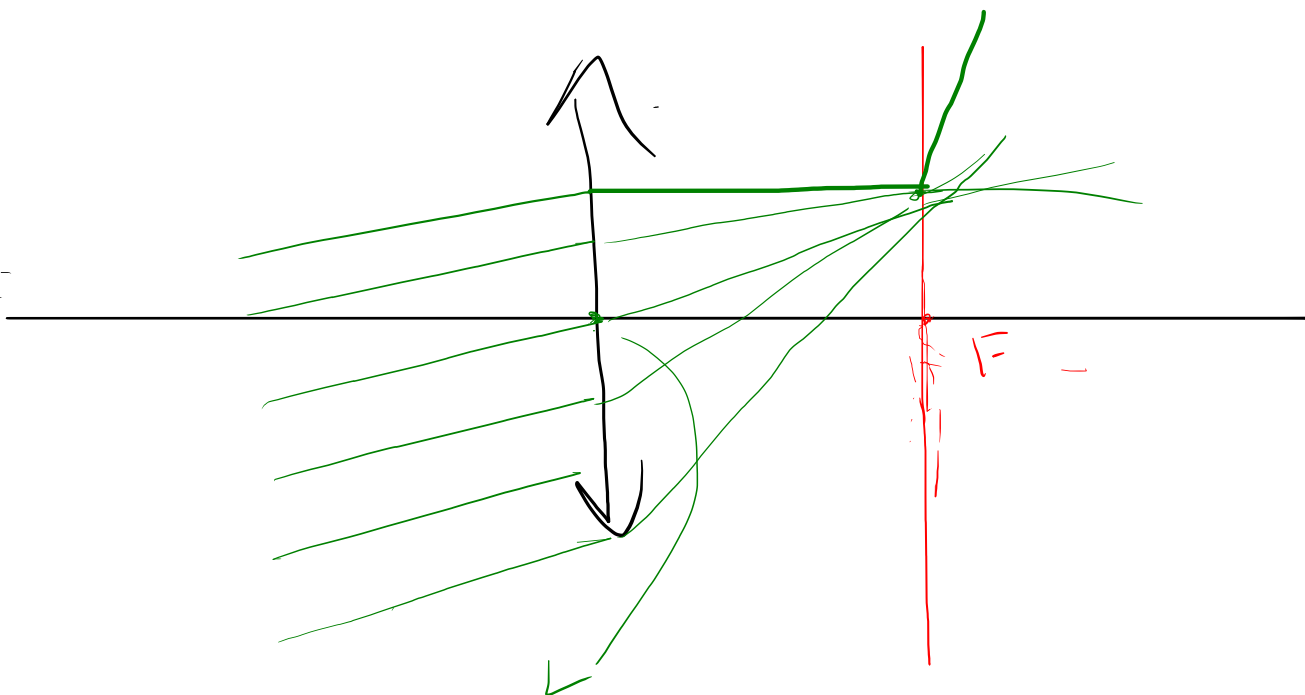
\rightarrow



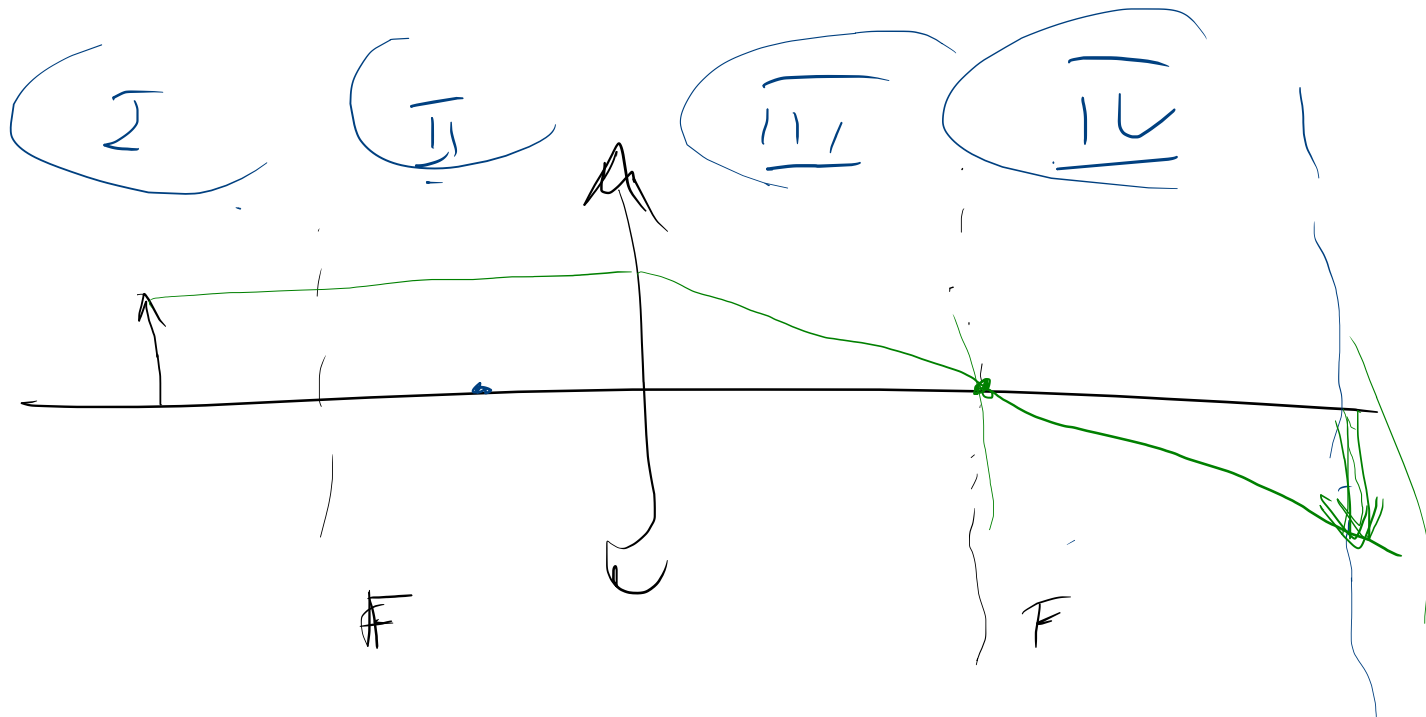
НА ПАРАЛЛЕЛИ.

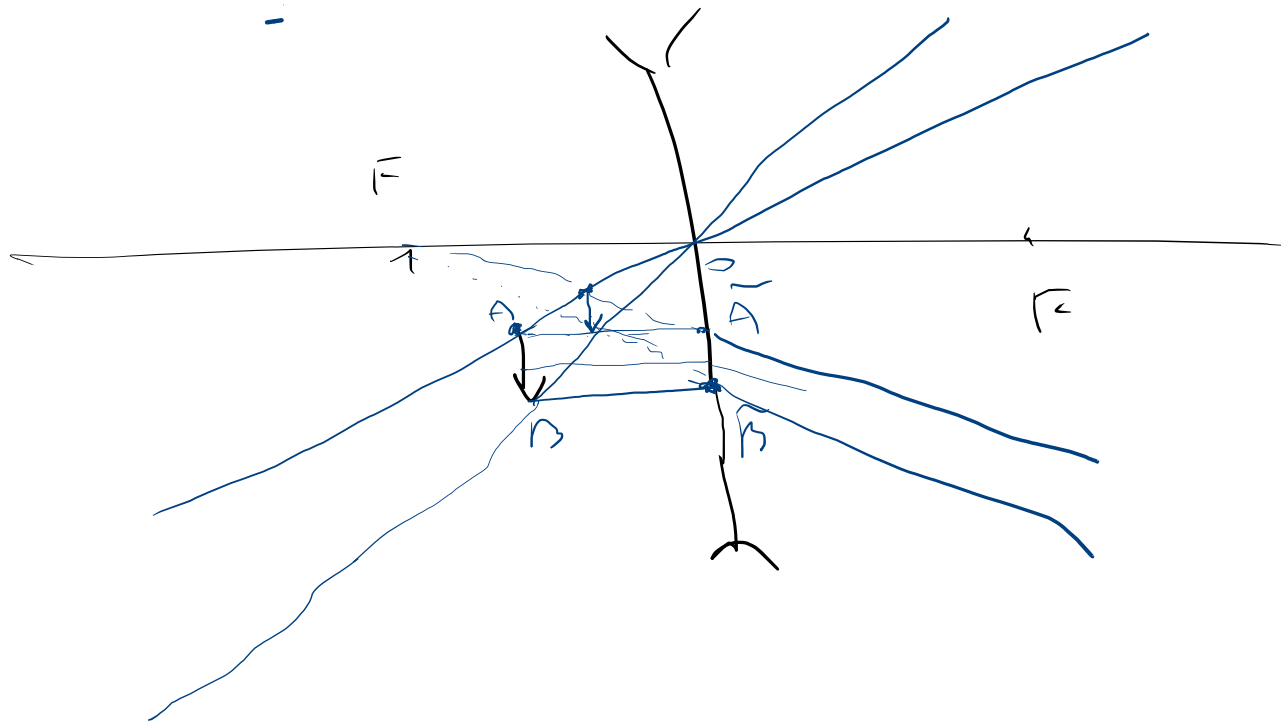


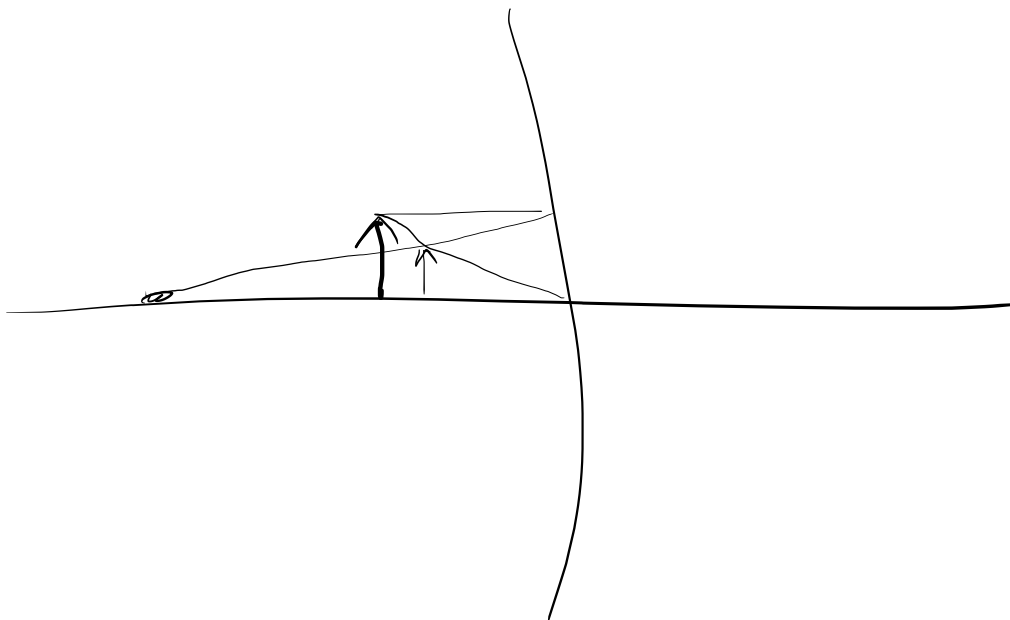


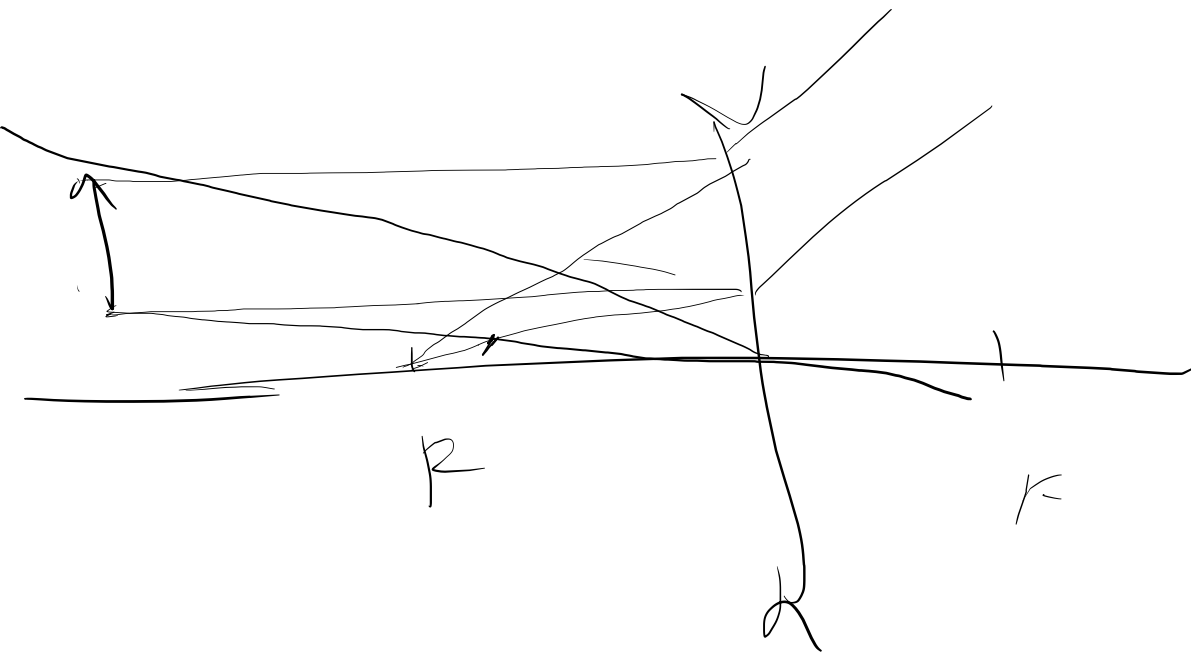


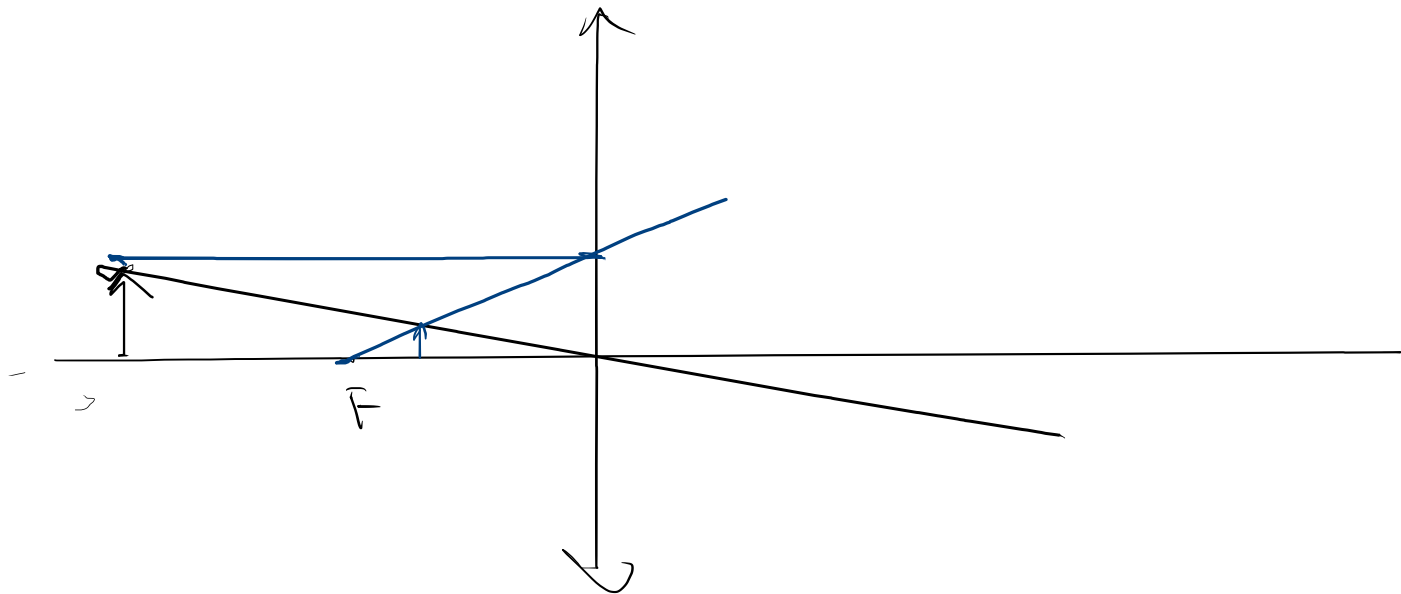
Луч проходящий через оптический центр не преломляется

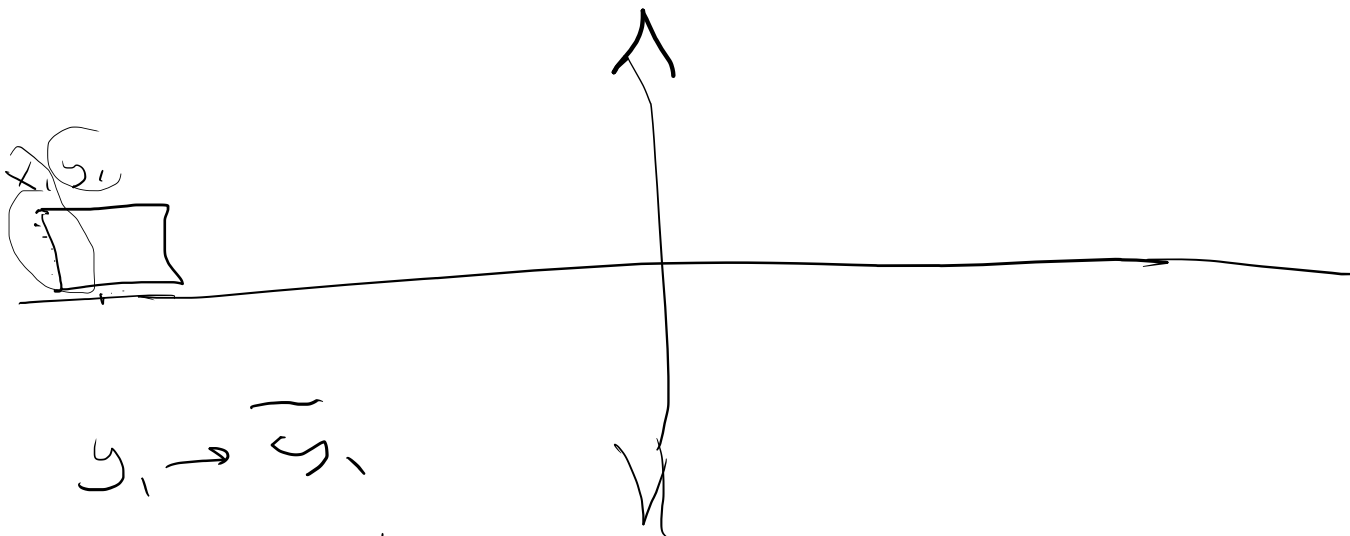






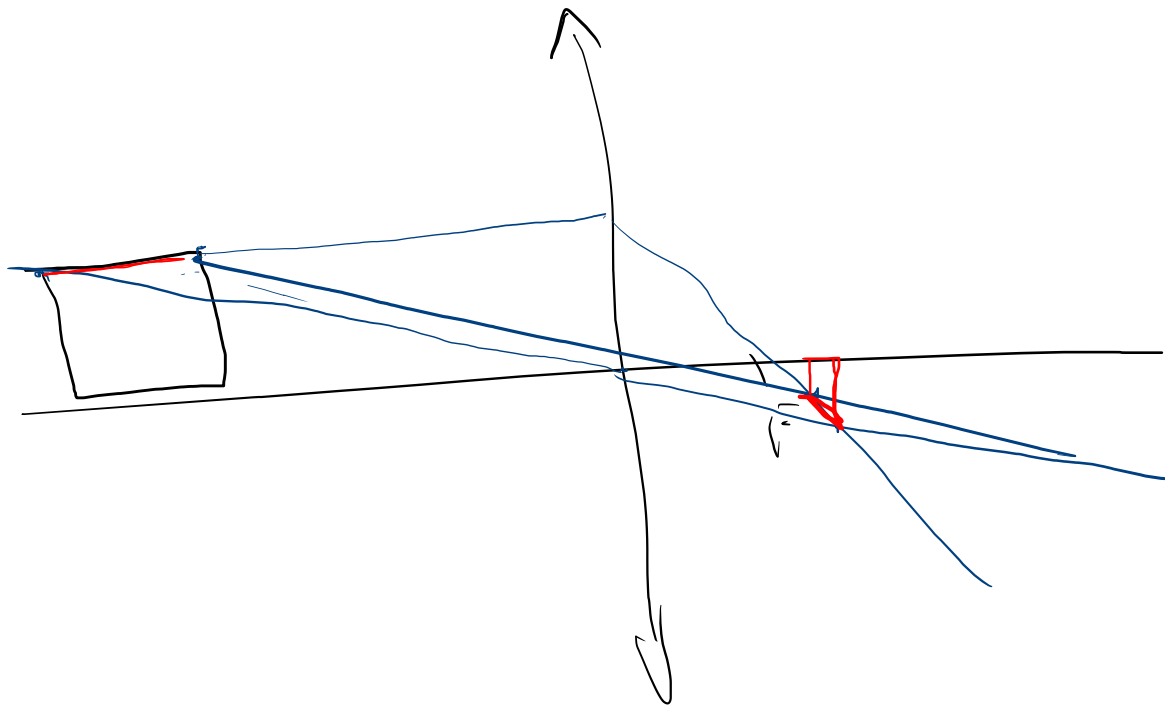


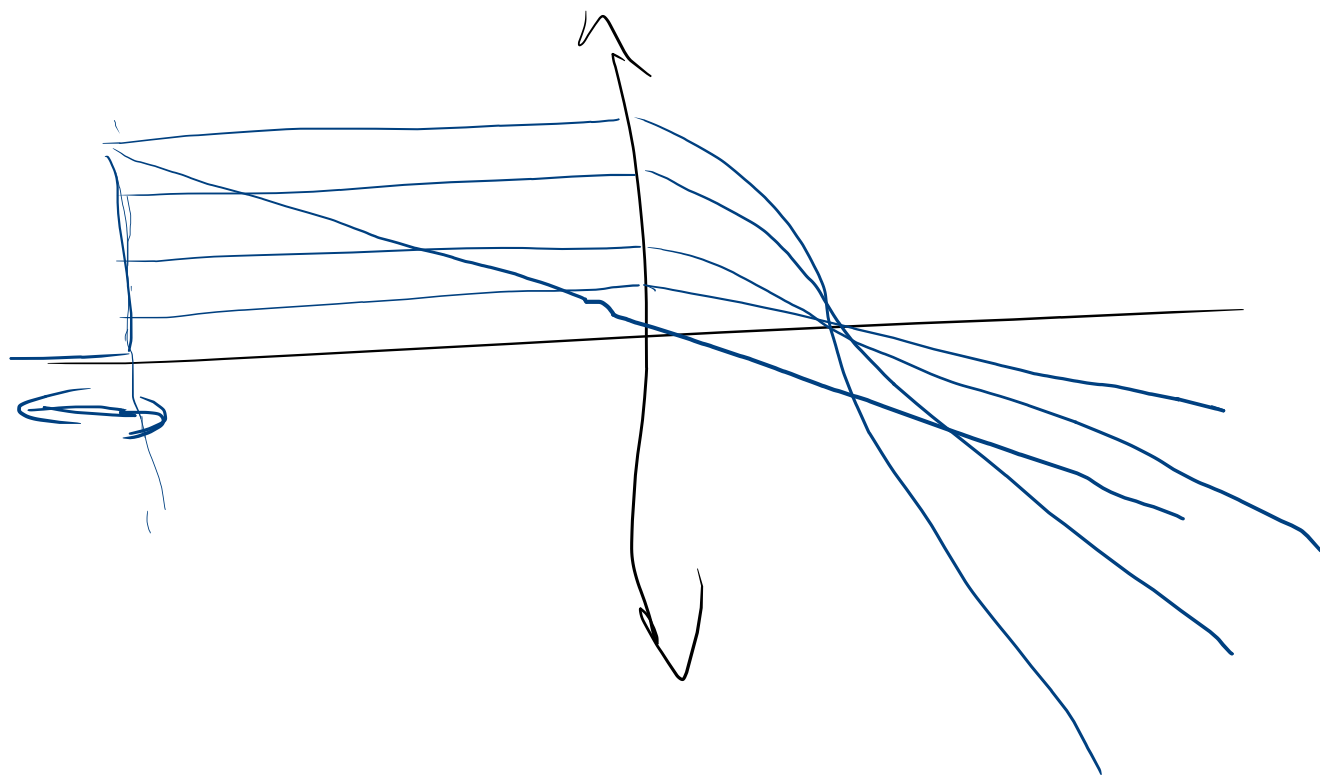




$$y_1 \rightarrow \bar{y}_1$$

$$x_1 \rightarrow x_2$$





$$\frac{1}{a} + \frac{1}{e} = \frac{1}{f}$$

