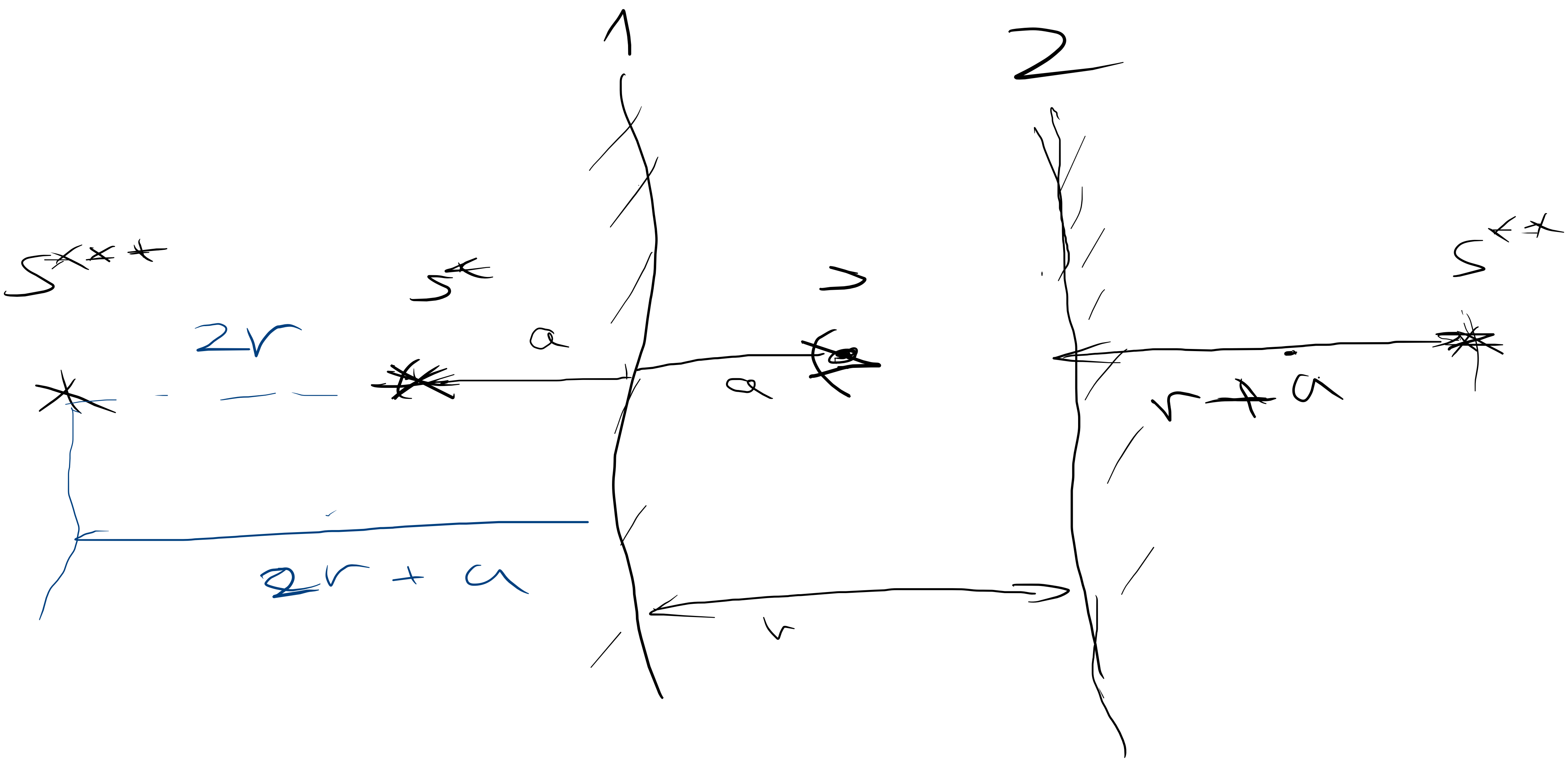
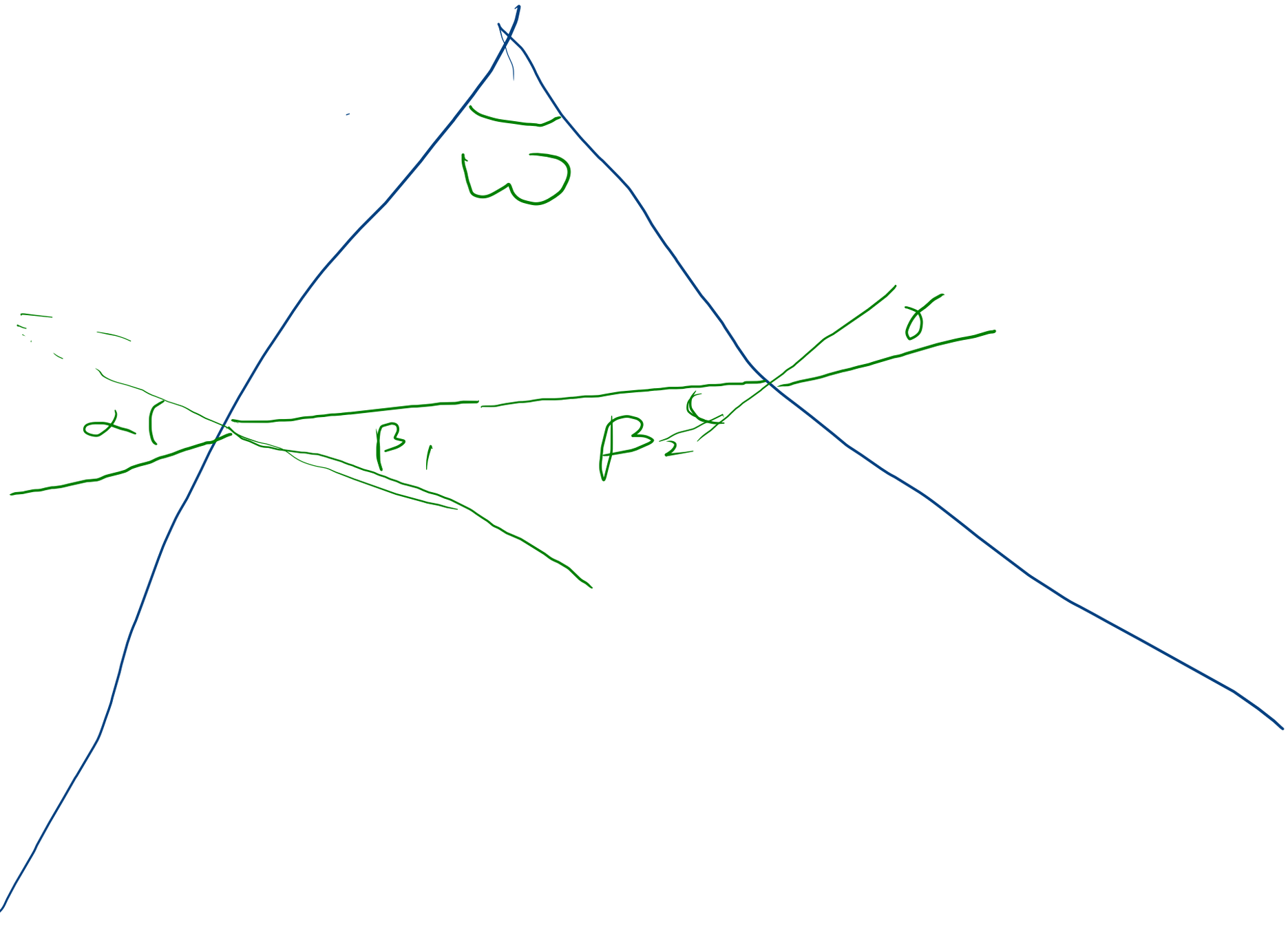
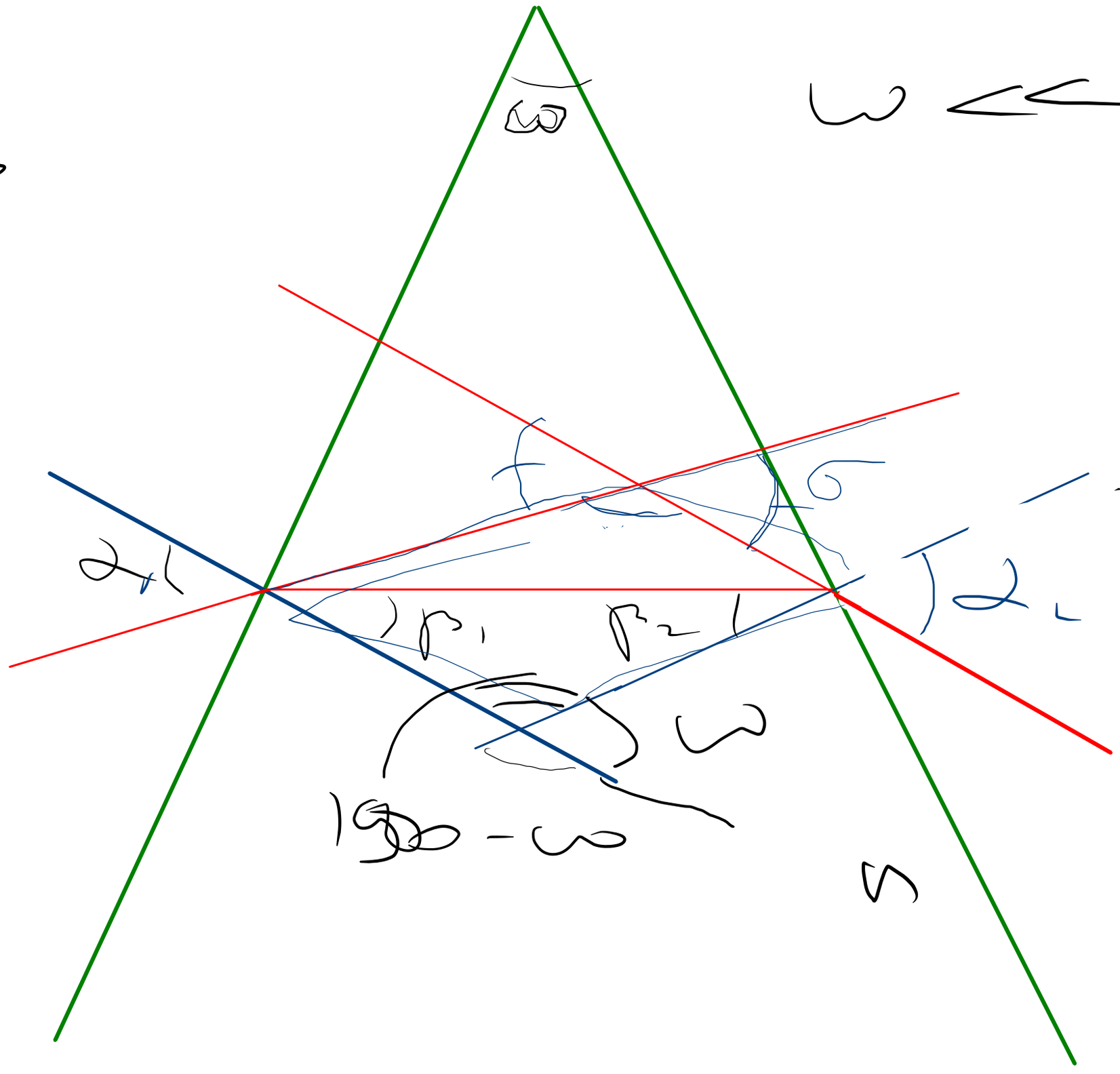
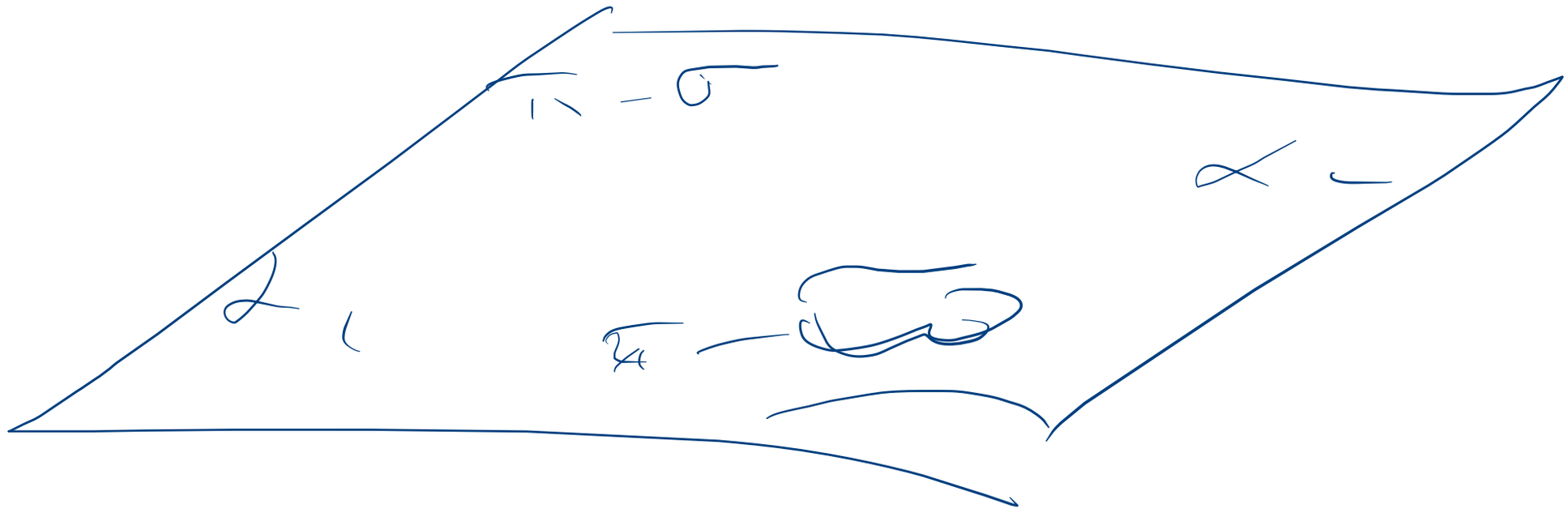
$a + r$ (odd)




ω
α
β1
β2
γ





$$\alpha_1 + \alpha_2 + 2\pi - \omega - \delta = 2\pi$$

$$\alpha_1 + \alpha_2 = \omega + \delta$$

$n_0 = 1$

$\sin\alpha_1 = n \sin\beta_1$,

$n \sin\beta_2 = \sin\alpha_2$

$\beta_1 + \beta_2 + 135 - \omega = 180$

$\begin{cases} \beta_1 + \beta_2 = \omega \\ \alpha_1 \simeq n\beta_1 \\ n\beta_2 \simeq \alpha_2 \end{cases} \rightarrow$

$\beta_1 = \frac{\alpha}{n}$

$\beta_2 = \frac{\alpha_2}{n}$

$$\alpha_1 + \alpha_2 = \omega + \sigma$$

$$\alpha_1 = n\beta_1$$

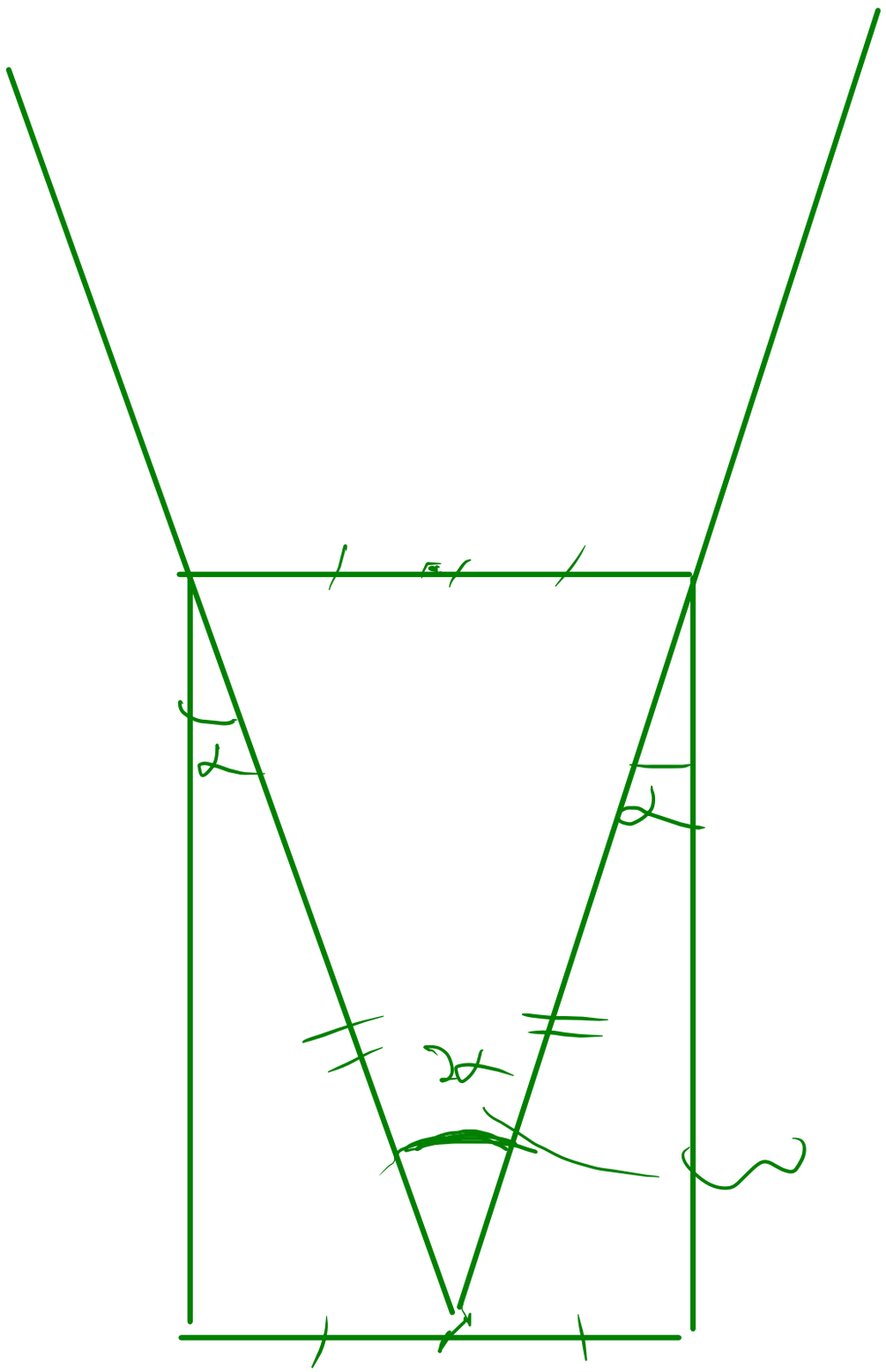
$$\alpha_2 = n\beta_2$$

$$\sigma = \alpha_1 + \alpha_2 \quad (\omega)$$

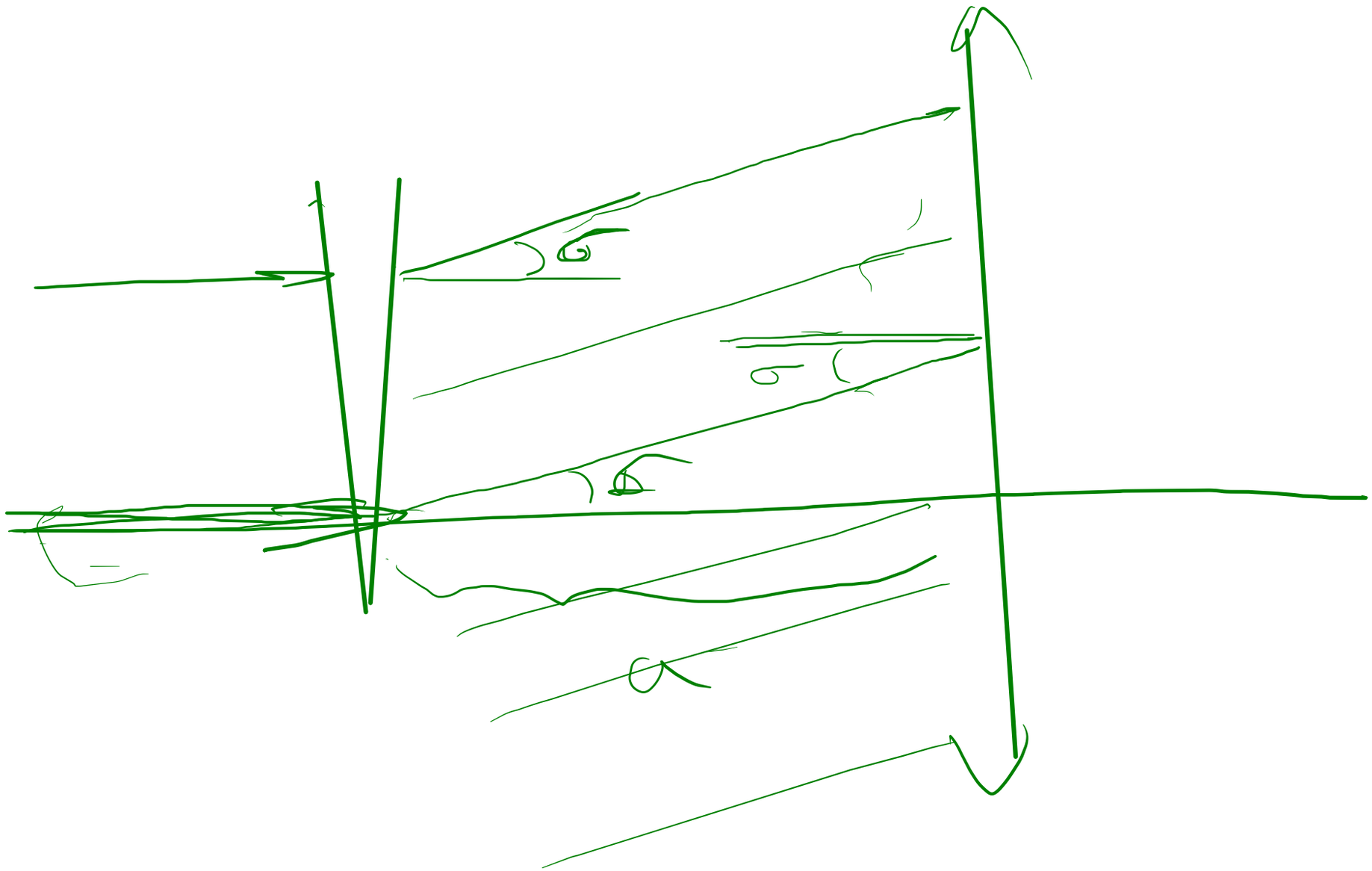
$$\sigma = n(\beta_1 + \beta_2) - \omega$$

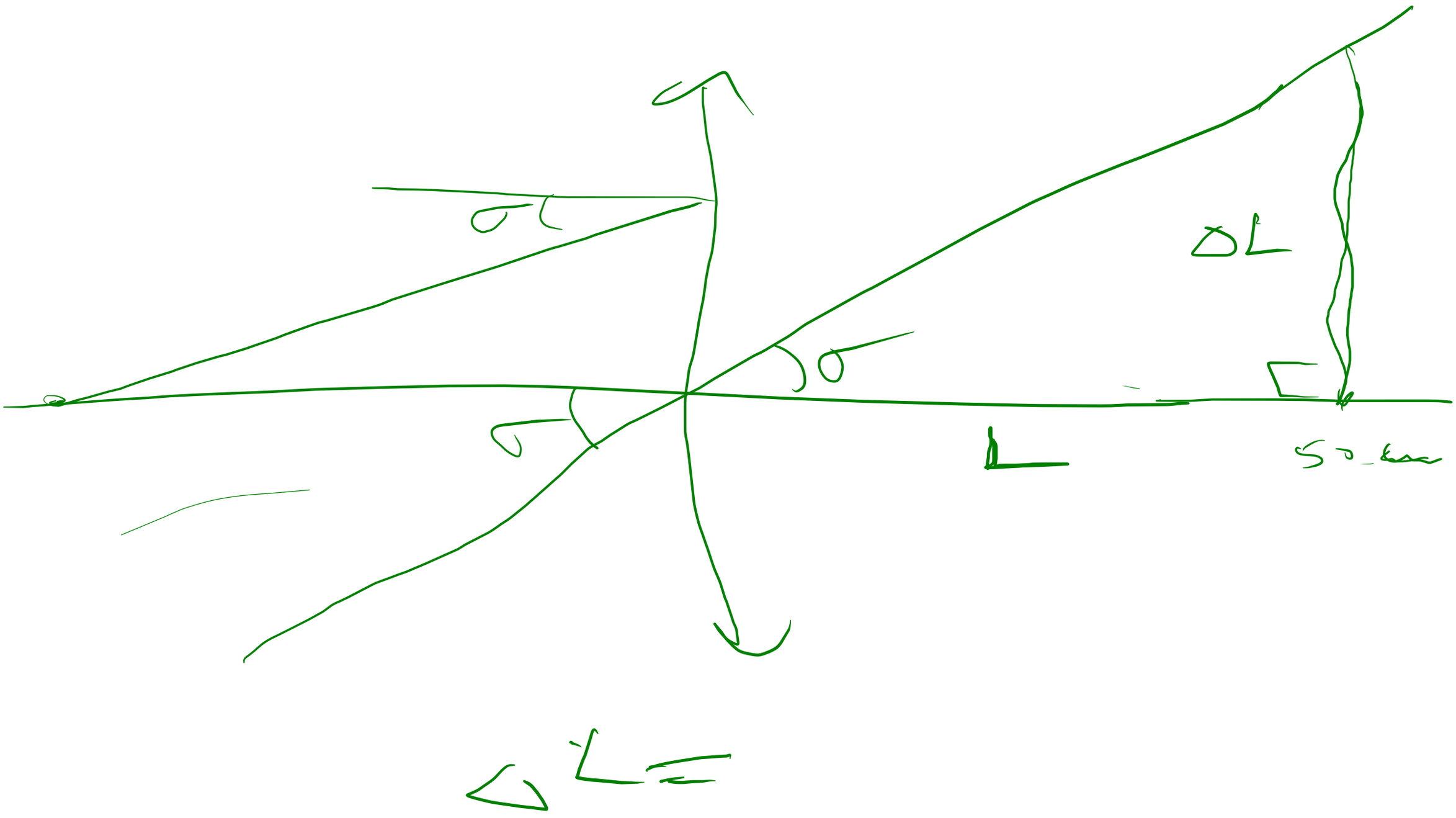
$$\sigma = \omega(n-1)$$

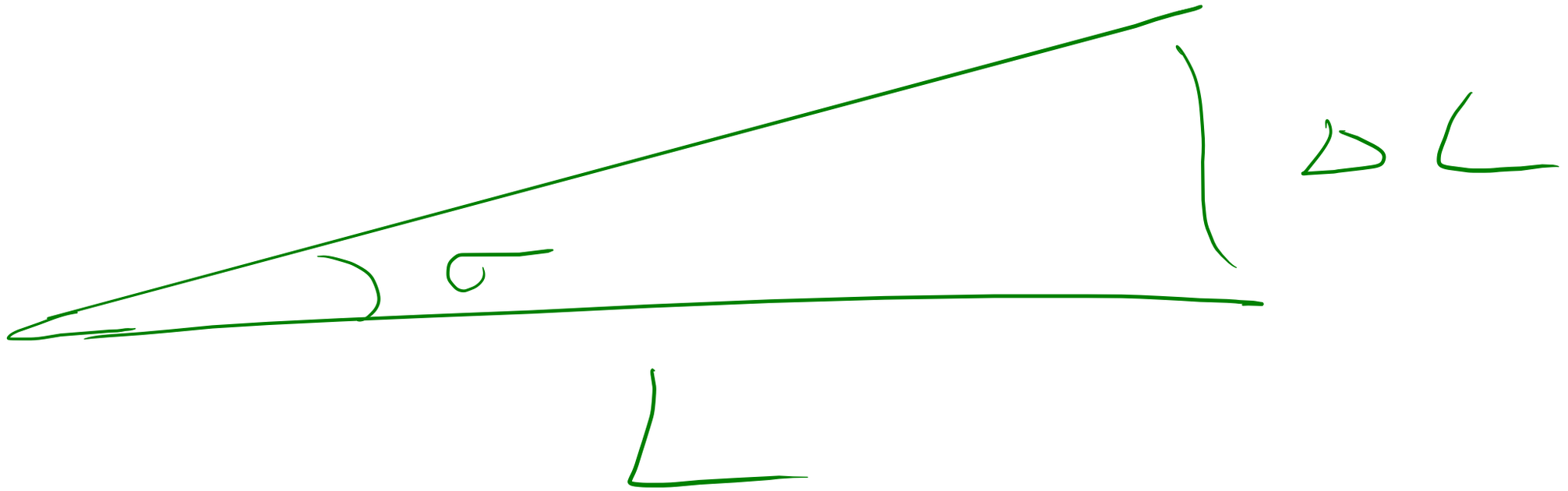
2



$$\sigma = 2\alpha (n - 1)$$







$$\frac{\Delta L}{L} = \varepsilon_g \sigma$$

$$\cup L = L \pm \delta =$$

$$= \pm \delta (2\alpha(n-1)) \cdot L =$$