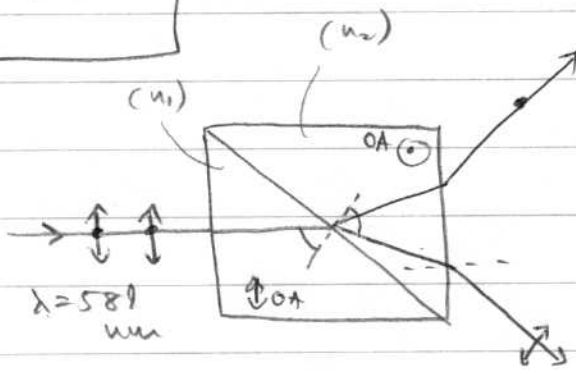
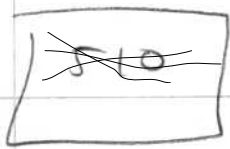


Pb 4-10



$$n_0 = 1,54424$$

$$n_{eo} = 1,55335$$

↑: yta 1: normalt infall, $\parallel - OA \Rightarrow n_{1\uparrow} = n_{eo}$
 $\Rightarrow$ ingen vinkelbrytning

yta 2: $n_{1\uparrow} = n_{eo}$, $\theta_i = 45^\circ$
 efter transmission: $\perp - OA \Rightarrow n_{2\uparrow} = n_0$

$$\text{Snell} \Rightarrow n_{eo} \sin 45^\circ = n_0 \sin \theta_{t2\uparrow}$$

$$\Rightarrow \theta_{t2\uparrow} = 45,3390^\circ$$

yta 3: $\theta_i = \theta_{t2\uparrow} - 45^\circ = 0,339012$

$$\text{Snell} \Rightarrow n_0 \cdot \sin 0,339012 = 1 \cdot \sin \theta_{t3\uparrow}$$

$$\Rightarrow \theta_{t3\uparrow} = 0,523521^\circ$$

⊙: yta 1: normalt infall, $\perp - OA$, $n_{1\cdot} = n_0$
 $\Rightarrow$ ingen vinkelbrytning

yta 2: $n_{1\cdot} = n_0$, $\theta_i = 45^\circ$
 efter trans: $\parallel - OA \Rightarrow n_{2\cdot} = n_{eo}$

$$\text{Snell} \Rightarrow n_0 \sin 45^\circ = n_{e0} \sin \theta_{t2}$$

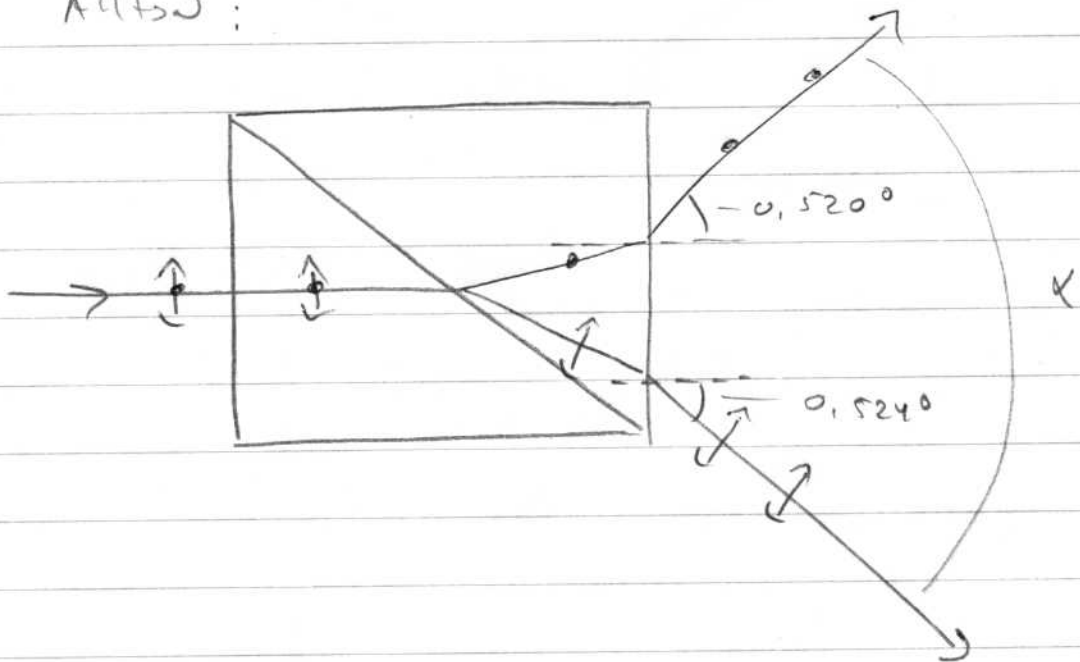
$$\Rightarrow \theta_{t2} = 44.6650^\circ$$

yta 3 $\theta_i = 45^\circ - \theta_{t2} = 0.335047$

$$\text{Snell} \Rightarrow n_{e0} \sin 0.335047 = 1 \cdot \sin \theta_{t3}$$

$$\Rightarrow \theta_{t3} = 0.520450^\circ$$

Altus:



$$\alpha = \theta_{t1} + \theta_{t2} = 1.044^\circ$$