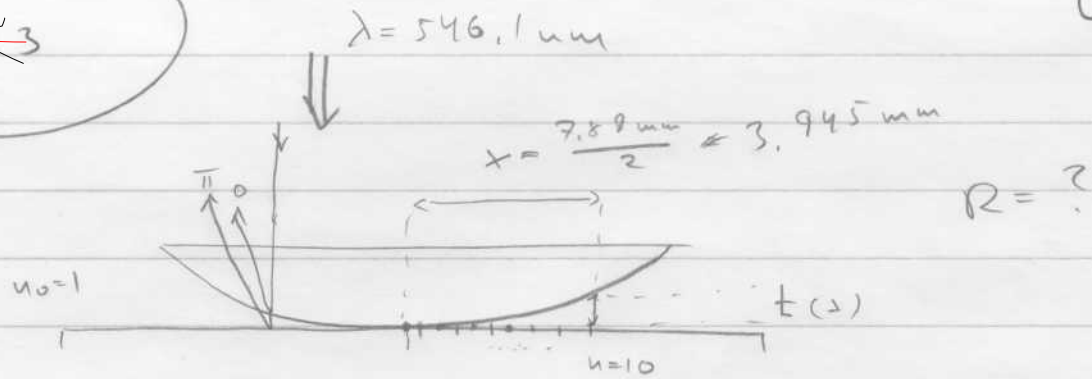
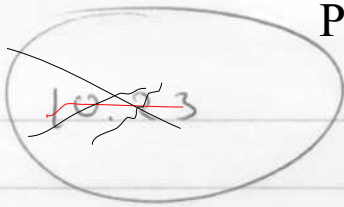


Pb. 5-49

pp



Reflexion el. transmission?

V: ante Reflexion: $\Rightarrow$ Macht i. mitte

Phasendifferenz: $\delta = \frac{2\pi}{\lambda} \cdot 2t(x) + \pi$

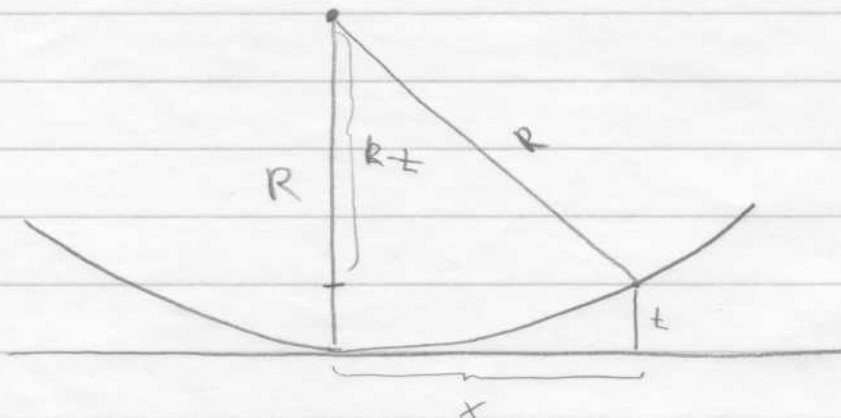
Max. d. d. $\delta = 2\pi \cdot m$, $m = 1, 2, 3, \dots$ (obs. all $m=0$ ist $\approx$ approximiert)

10: e. Linie $\Rightarrow m = 10$

$$\Rightarrow 10 \cdot 2\pi = \frac{4\pi}{\lambda} t(x) + \pi$$

$$20 - 1 = 19 = \frac{4t(x)}{\lambda}$$

$$\Rightarrow t(x) = \frac{19}{4} \lambda = 2.594 \text{ nm}$$



$$P_{\gamma} t_u \Rightarrow R^2 = (R-t)^2 + x^2$$

$$R^2 = R^2 - 2Rt + t^2 + x^2$$

$$2Rt = t^2 + x^2$$

$$\rightarrow R = \frac{t^2 + x^2}{2t} = 3.00 \text{ m}$$