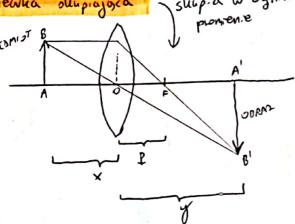
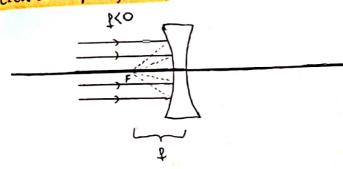


 $p = \frac{y}{x}$, $\frac{1}{x} = \frac{1}{x} + \frac{1}{y}$ analogicuse j/w * predmut po lewer strong somewhi (x>0)



21 Lnoss dempiojoso: $Z = \frac{1}{8}$

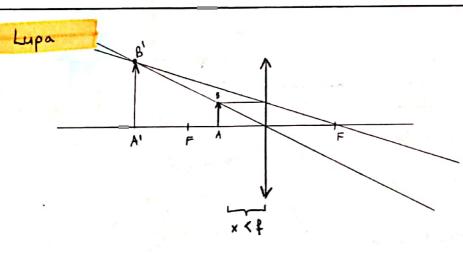
Socrewha rozpranojska



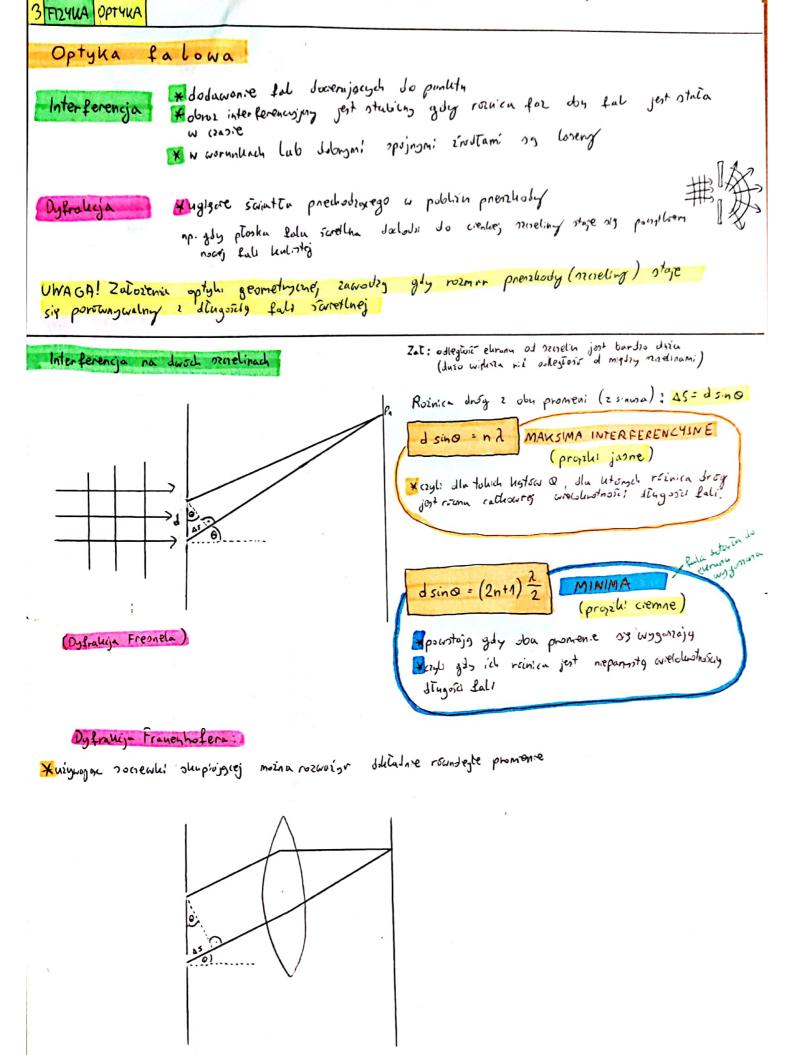
xultal lompeningery w untalach societale * ultrad 2 sociences a sanshowsel fo, fl posicia aspallows f

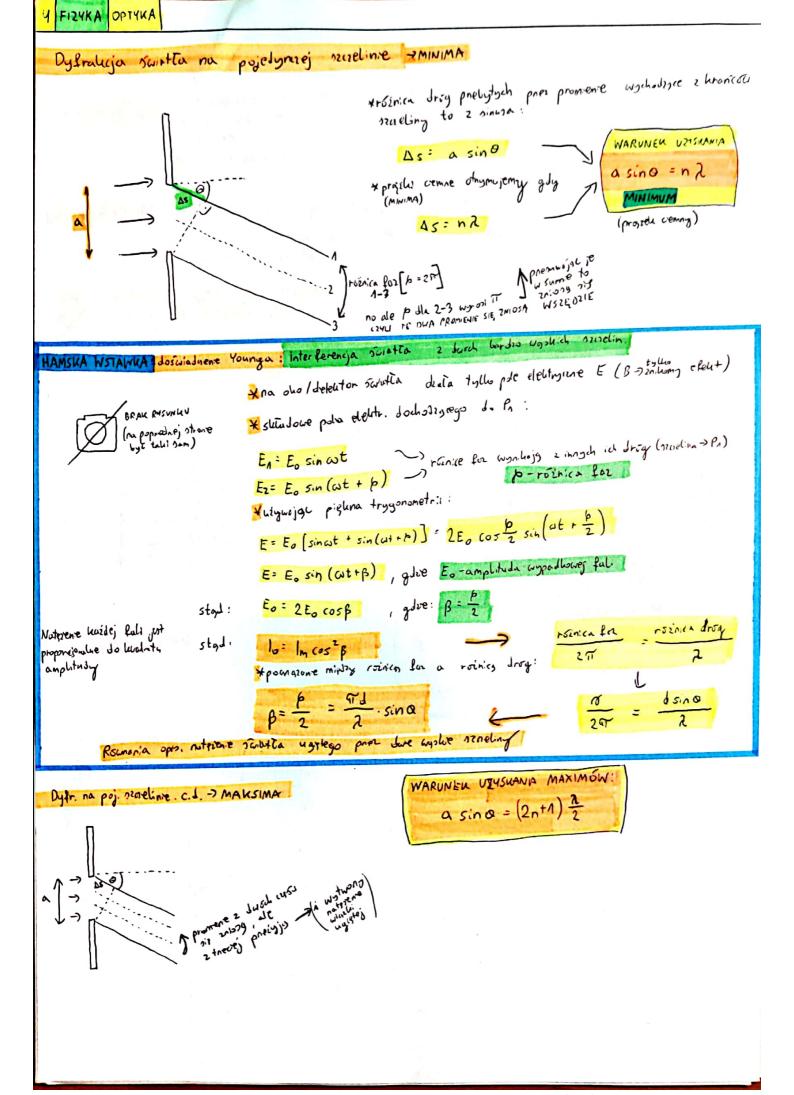
$$\frac{1}{P} = \frac{\Lambda}{4n} + \frac{\Lambda}{92}$$

*inny with, gilve: Muzzisling usp. zatamanlı miteratin, z utorgo wylonan- socieculos wrojestem osnalla w literym sis anojenye raire-promone languising despouvendent societa r<0 gdy son ewha white (np. rosphenista) $\frac{1}{t} = (n-1)\left(\frac{\Lambda}{r_1} + \frac{1}{r_2}\right)$



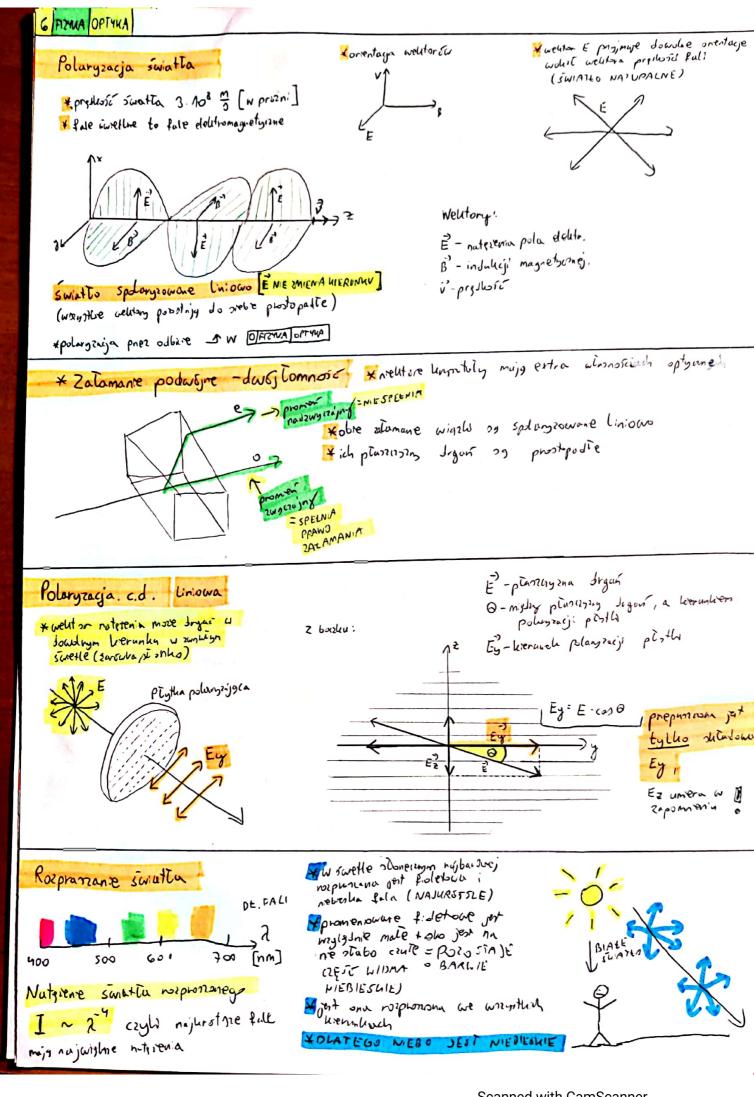
*promene stujy sij rostierne, ale ich predtimenia precinije or w punkie B!





5 FIZYKA OPTYKA dy frakcyjna - płytha z dwig iloszig nacije (neuelinek) Siatha *maksima analogicane juh w dyfroligi na 2 szcrelinach: - Rosulad natisena prosition ugistych na 2 tee Introllering * glowne progate opirane roumanem! Is I'm cost P * prostu pobocine to winih interferency! podgrap morodin m=2 (tzh. co 2/co 3 moeliny) * swiatto padajusce na cienta pretrainta/potpretrocinta Interferencja w cienlich warstwach wantur ulega alticia ad games i dolar, warntury, OBIE ODBITE WINZUI INTERFERULA Prypadele, gdy a=0° (prostopable pada swinto) -promen zutamung jest tri prostopasty powetne * promer letery of od raza odbit od górnej powienchal before interferomet 2 tom co odbit org od dolnes i odbit is 2 pourstem. warntur o uspscaonalka PREDNOS SUIATEA WEUNATRE PETERI V. = " ST. fall cupintee! zatunania rownym * promen odbits ad your, pawenthis odbit as odbit 213 00 ornalis optoine gentinego = 2MIENIE FAZE O 180 MAKSIMA gdy: (dodono do dogi promen lituro uniell) MINIMA gay: droga promenta weungto pistul jest cathounty withhotosicis 2 dn = (m+1) 2 2 dn = m. 2 stingosen full 2, Ogstne prypodlu gdy a 70° warmel na MAKSIMA: gdy: d=const PRAZUI JEDNAKOWEGO NACHYLENIA 2d \n2-sin2a = (m+ 1/2) 2 - Kdeine praide another of prompt lighter federic of a = const PRAZUL JEDNAHONE GRUBOSCI gdy prazle jednolowes gruboici provide stuleys nacholenia J MIDON 5 PULL

PIERSCIENE NEWTONA



Fotometria - podstawowe wzorki

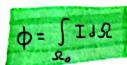
co to znaczy?

* natgiene insulta swiatta

I = AW ALAR

- a) energia wysylana pnez érodi pnypadojoca na jednostho czasu i jednostho lista brolocrego.
- b) mor na jednosthe heta brolowego

* strument switchny



- miara jannosci [np. zarowka 40W = 415 Lm]

- cathouth mor menona pnez fule, propagujorg sis w hot brytowy So
- [LVMENY]

da petnego hyta brotocego \$=477I

* oswetlene powerchni

$$E = \frac{\phi}{A}$$

- strument na powerchije A

- jednostla: lux (lx)= lm

