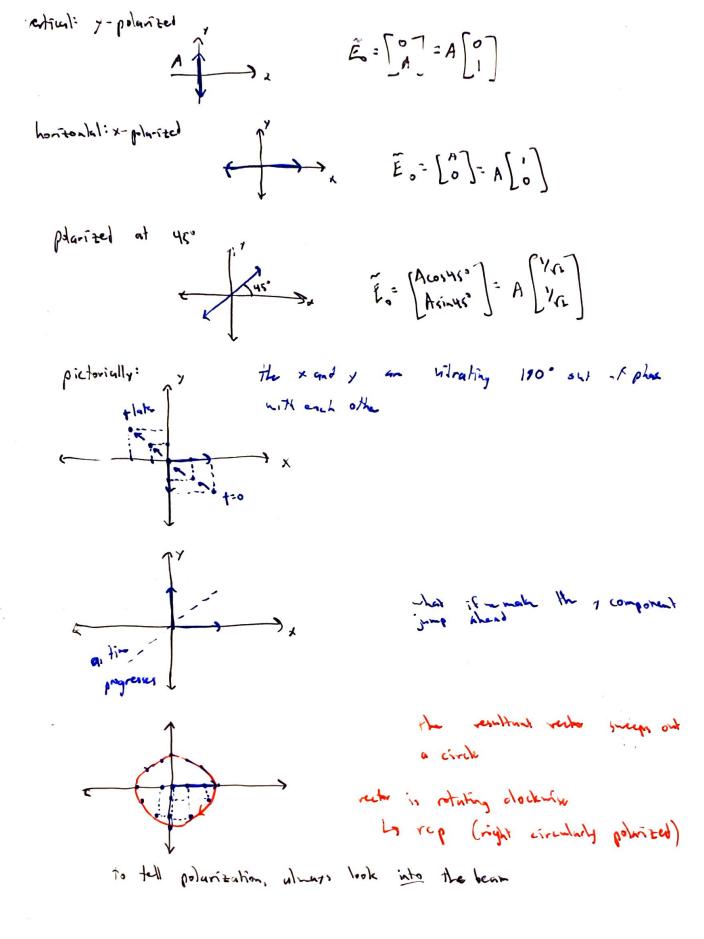
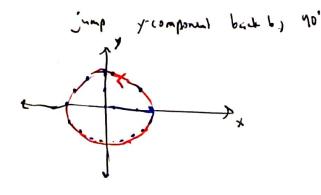
## Week 9## Question how many frings per second will be seen? I finge per \$1.0 2 fight 1 2 2 high In terms of doppler chaitting at to und morning DF- Fo(2) of VKL ,. for the moving mirror Of= 2fo 1/c f. i for Al albel together beats at Of Polarization Representation of polaritation by Jones calculus polarized Kyll - traverse vibrations = E = E ((kz-w+4x) x + E = (kz-w+4)) = (Eo, ei x + Eo, eib, x) eikz-wt)  $= \tilde{E}_{0} e^{i(kz-Lt)}$   $= \tilde{E}_{0} e^{i(kz-Lt)}$   $= \tilde{E}_{0} e^{i(kz-Lt)}$   $= \tilde{E}_{0} e^{i(kz-Lt)}$   $= \tilde{E}_{0} e^{i(kz-Lt)}$ 

um necta





(ounter- docking rotation Ly left executary logarited (100)

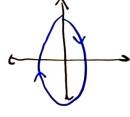
but warms are reprosed by either-wil

to represent rep the joins vector is actually in [i] = [eit]

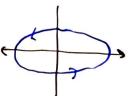
he can change the amplitudes of the components



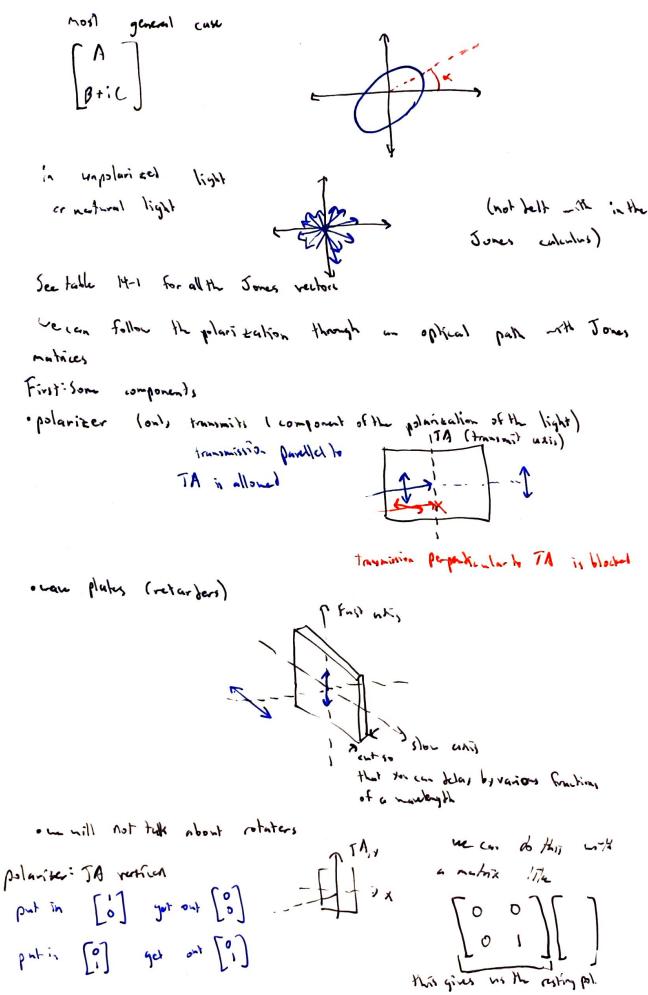
could have right and left polarization

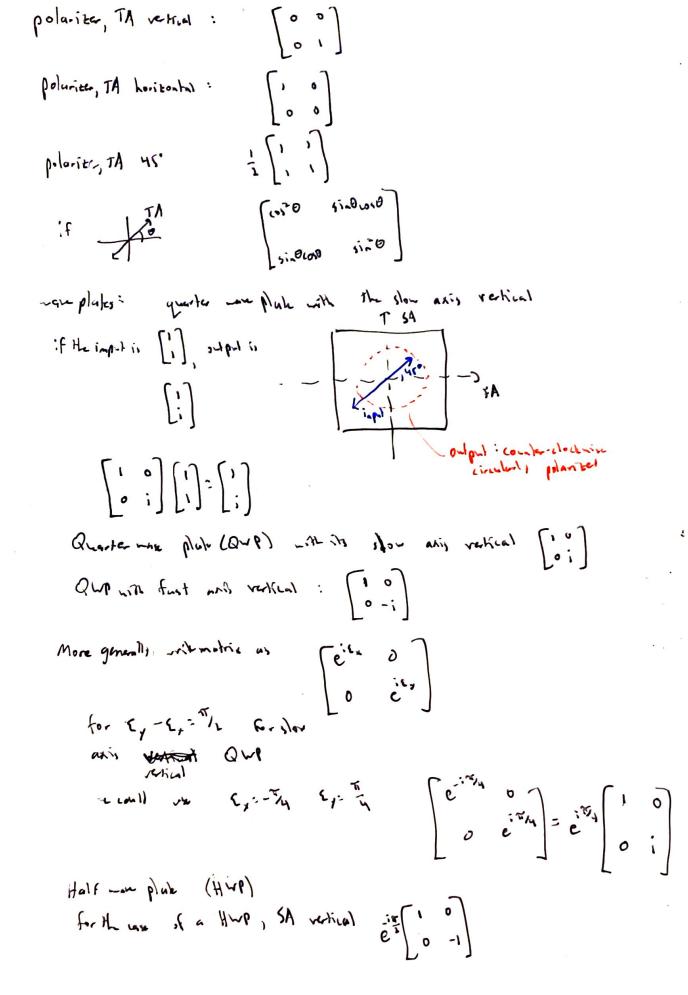


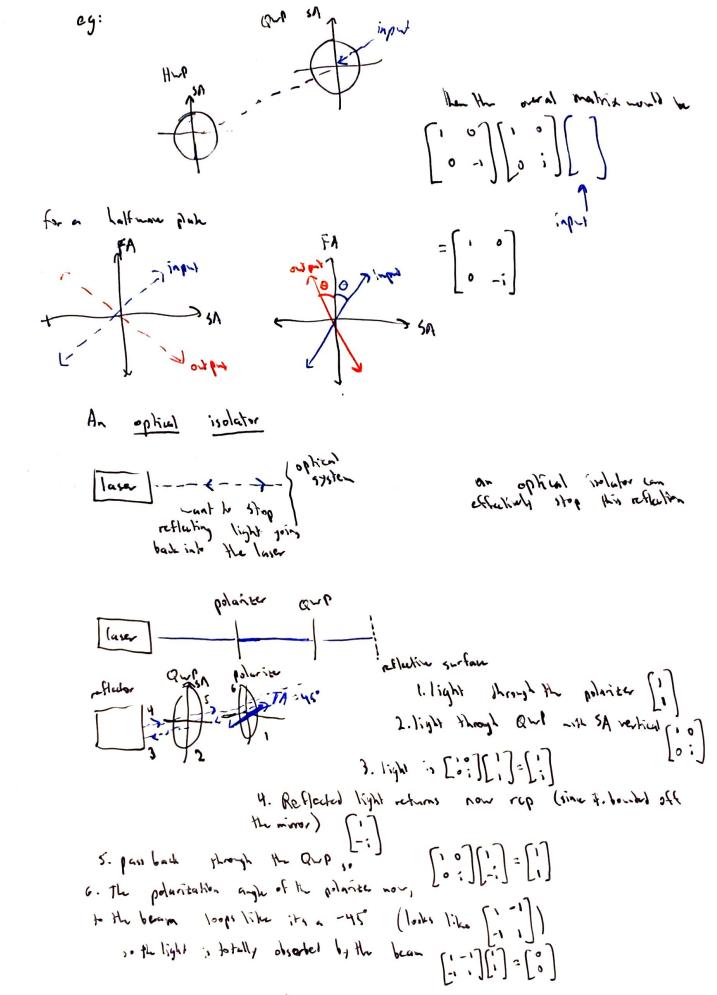
right eleptical polarization



left elliptical polarized







Production of Polarized light

production of linearly polarized light

Absorbsion - placesid: Hoseibs on of the polarizeations

Reflection

Scattering

put in unpolorized light clerhony on free to now when the conduction direction (light absorbed)

Lamput honzoodel polonized light

If me rotate the polaroid with the input light polarised,

10-1:471

E. - E. 6,000 I. - 7. 6,00

I = Iocosio Malus law