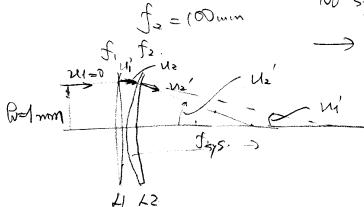
Thin lons in our

No spacing between 21842.



Torul power.

$$u' = u_1 - R\phi_1 = 0 - 1. \frac{1}{100} = -0.01$$
 $u'_2 = u_2 - R\phi_2 = -0.01 - 1. \frac{1}{100} = -0.02$

$$B = -\frac{2(N^2-1)C}{N+2} = 1.006 \simeq 1.006$$

Conjugat Facon for L2.

$$C = \frac{-0.01 + (-0.02)}{-0.01 - (-0.02)} = \frac{-0.03}{0.01} = -3.$$

$$B = -\frac{2(n^2-1)(-3)}{n+2} = (2x^3 = 3.$$

$$\frac{R_{1}}{R_{2}} = \frac{B-1}{B+1} + \frac{B-1}{4} = \frac{2}{4} = \frac{1}{2}.$$

$$B = 3.$$

$$R_{1} = 2R_{1}$$

$$R_{2} = (N-1)(\frac{1}{R_{1}} - \frac{1}{2R_{2}}) = (N-1)(\frac{1}{R_{1}} - \frac{1}{2R_{1}})$$

$$= (N-1)(\frac{1}{2R_{1}}) = 0.01.$$

$$R_{1} = \frac{N-1}{2 \times 0.01} = \frac{1.69-1}{0.02} = \frac{0.69}{0.02}.$$

$$= 34.5 \text{ mm}.$$

$$R_{2} = 3R_{1} = 69 \text{ mm}$$

Check
$$\phi_{2ens} = (1.69-1)(\frac{1}{3k.5} - \frac{1}{39})$$

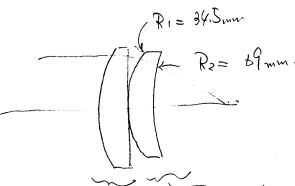
$$P_{2enS2} = (1.69 - 1)(\frac{1}{34.5} - \frac{1}{39.5})$$

$$= 0.69 \times 1$$

$$= 0.01 \cdot 0.4$$

$$R_1 = 34.5 \text{ mm}$$

$$R_2 = 69 \text{ mm}$$



meniscus lens

Crivex - Plano.

3)
$$W = W_{020} \int_{-1}^{2} d^{2} d^$$

$$\frac{\partial \mathcal{E}_{y}}{\partial \mathcal{G}_{p}}\Big|_{\mathcal{G}_{p=0}} = -4(R^{+}) \mathcal{W}_{020} = \mathcal{P}_{0,m}$$

$$W = -48p^{2} + 28p^{3} = -47 + 27^{2}$$

$$(b) = 7$$

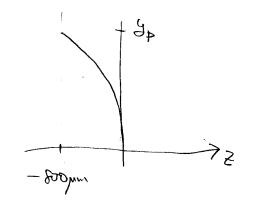
$$(b) = 7$$

$$\begin{array}{rcl}
\mathcal{L}A &=& + & \frac{2(\mathcal{H}^{\#})}{\mathcal{G}_{p}} \mathcal{T}A \\
&=& \frac{2(\mathcal{F}^{\#})}{\mathcal{G}_{p}} \left(-2(\mathcal{F}^{\#}) \left(4 \mathcal{D}_{0} \mathcal{G}_{p}^{3}\right)\right)
\end{array}$$

$$= - 4(f#)^{2}(+ 4Wo4odp^{2})$$

$$= - 4(f#)^{2}(+ 84p^{2})$$

$$= -32(f#)^{2}(y_{p}^{2}) = -800(y_{p}^{2})$$



at paralial focus,
$$\Sigma_y = -2(7/4)$$
 (word $y_p 3$.

I from the diagram. $\phi = 60 \mu m$.