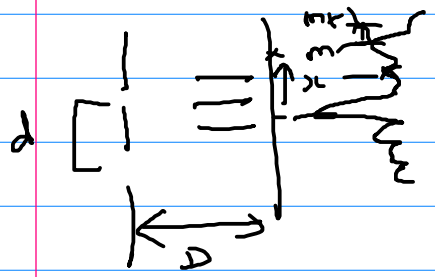


$$\frac{xd}{D} = m\lambda \qquad \frac{xd}{D} = (2m+1)\lambda/2$$

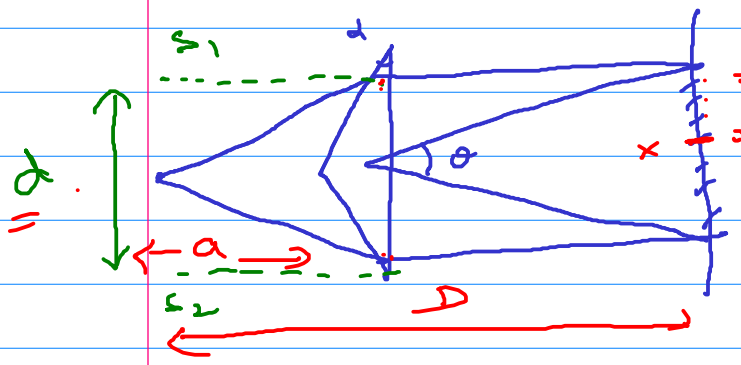
$m=0$

$$x_m = \frac{m\lambda D}{d}$$

$$x_{m+1} = \frac{(m+1)\lambda D}{d}$$

$$\beta = x_{m+1} - x_m = \frac{\lambda D}{d}$$

$$\boxed{\beta = \frac{\lambda D}{d}}$$



$x_{m+3} = 1.3$ mm

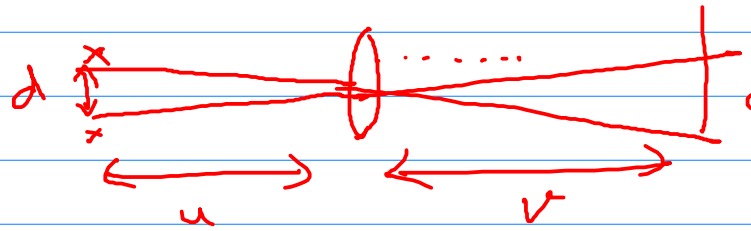
$x_m = 1.25$ mm

$3\beta = 0.5$

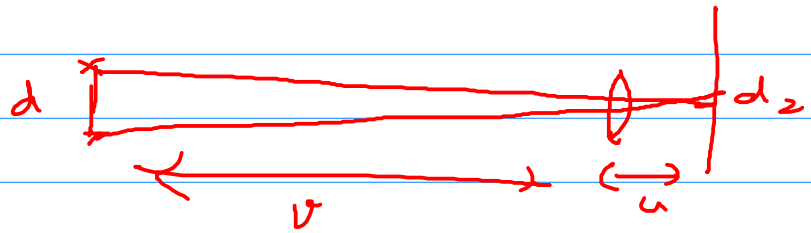
$\beta = 0.5/3$

$\beta = \frac{\lambda D}{d}$

$\lambda = \frac{\beta d}{D}$



$\frac{d_1}{d} = \frac{u}{v}$ → (1)



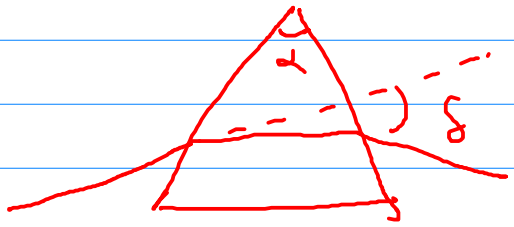
$\frac{d_2}{d} = \frac{u}{u}$ → (2)

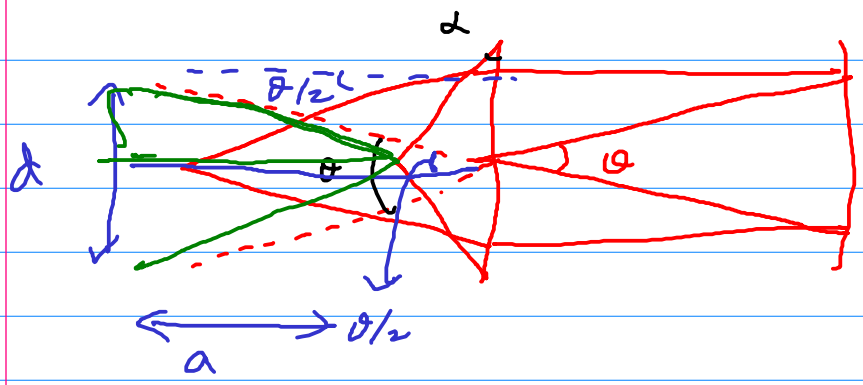
$\frac{d_1 d_2}{d^2} = \frac{u}{v}\frac{u}{u} = 1$

$d_1 d_2 = d^2$

$d = \sqrt{d_1 d_2}$

$\delta = (\mu - 1)\alpha$





$\delta = \theta/2$

$\theta = d/a$

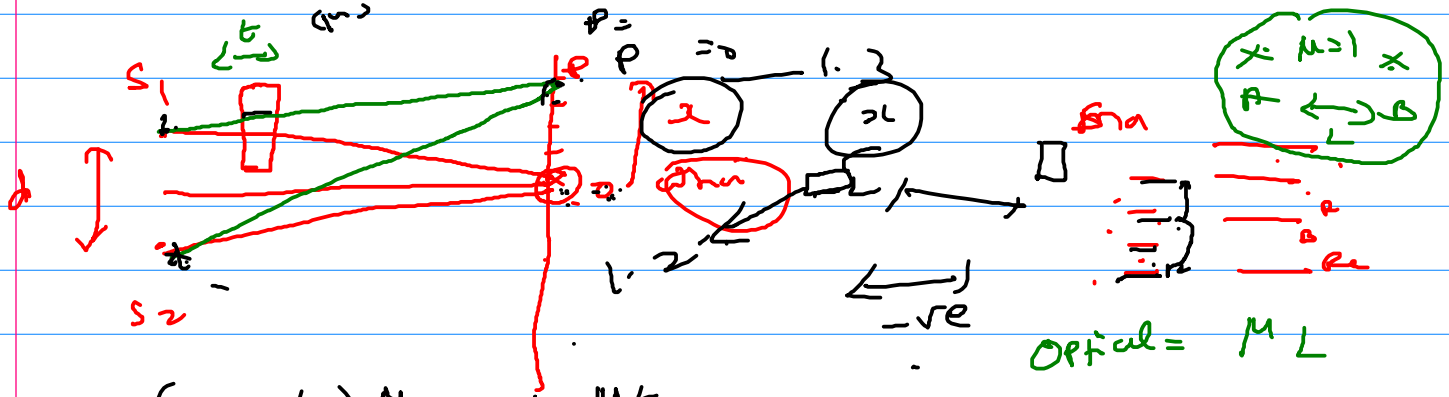
$\delta = (\mu-1)\alpha$

$\theta/2 = (\mu-1)\alpha = \dfrac{d}{2a} = (\mu-1)\alpha$

$\boxed{d = 2a(\mu-1)\alpha}$

$\alpha = 1/2° = 30'$

$\mu = 1.5$



$S_1P = (S_1P - t)\mu_{air} + \mu t$

$= (S_1P - t) + \mu t = S_1P + (\mu-1)t$

A. in B $= (1.3)L$

$S_2P = S_2P\,\mu_{air} = S_2P$

$S_2P - S_1P = 0$

$S_2P - S_1P + (\mu-1)t = 0$

$S_2P - S_1P = (\mu-1)t$

$\dfrac{xd}{D} = (\mu-1)t$

$\boxed{t = \dfrac{xd}{D(\mu-1)}}$

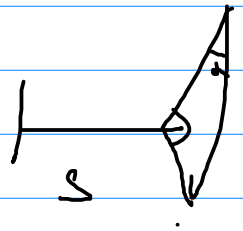
$\frac{xd}{D} = m\lambda$

$\frac{xd}{D} = (2m+1)\lambda/2$

$\beta = \frac{\lambda D}{d}$

$d = \sqrt{d_1 d_2}$

$d = 2a(\mu - 1)\alpha$



$t = \frac{xd}{D(\mu-1)}$