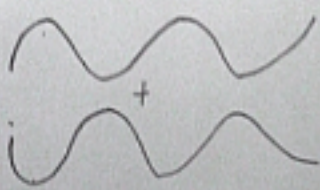
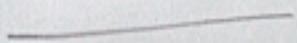
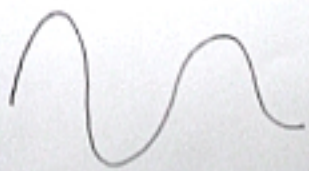


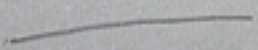
250

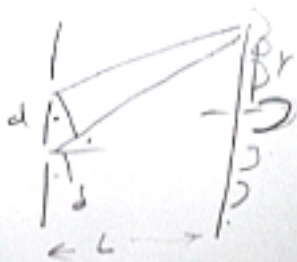


const



Dest





$$\tan \theta = \frac{y}{L} \sim \sin \theta$$

$$s = d \sin \theta = \frac{\gamma d}{L}$$

$$\text{Const: } s = m \lambda ; m = 0, \pm 1, \dots$$

$$m \lambda = \frac{\gamma_m d}{L} \Rightarrow \gamma_m = \frac{m L}{d} \Rightarrow$$

$$\Delta \gamma = \frac{\lambda L}{d} \Rightarrow \lambda = \frac{\Delta \gamma d}{L}$$



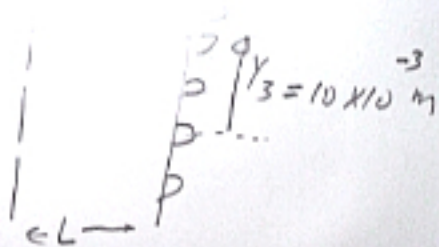
$$d = 600 \text{ nm}$$

$$d \left| \begin{array}{c} -3 \\ \cdot 2 \times 10^{-3} \text{ m} \end{array} \right|$$

$$L = 10$$

$$y_m = \frac{m\lambda L}{d}$$

$$\Delta y_m = \frac{\lambda L}{d} = \frac{600 \times 10^{-9} \times 10}{\cdot 2 \times 10^{-3} \text{ m}}$$
$$= 3 \times 10^{-2} \text{ m}$$



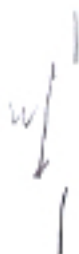
$$s = m\lambda$$

$$y_m = \frac{m\lambda L}{d}$$

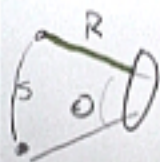
$$\lambda_m = \frac{y_m d}{L} \cdot \frac{1}{m}$$

$$= \frac{10 \times 10^{-3} \cdot .15 \times 10^{-3}}{3 \cdot 1}$$

$$= 500 \text{ nm}$$



$$\Delta\theta = \frac{2r}{w}$$



$$\Delta\theta = 1.22 \frac{\lambda}{w}$$

$$s = R\Delta\theta$$

$$\Delta\theta = \frac{s}{R} = 1.22 \frac{\lambda}{w}$$

ϕ

s



F
W

$$s = d \sin \theta$$

const:

$$s = m\lambda = d \sin \theta$$

$$m = 0, \pm 1, \dots$$

$$\sin \theta_m = \frac{m\lambda}{d}$$

$$m' = \frac{d}{\lambda}$$

$m < m'$ But Inten



$$I = I_0(\omega) \theta$$

