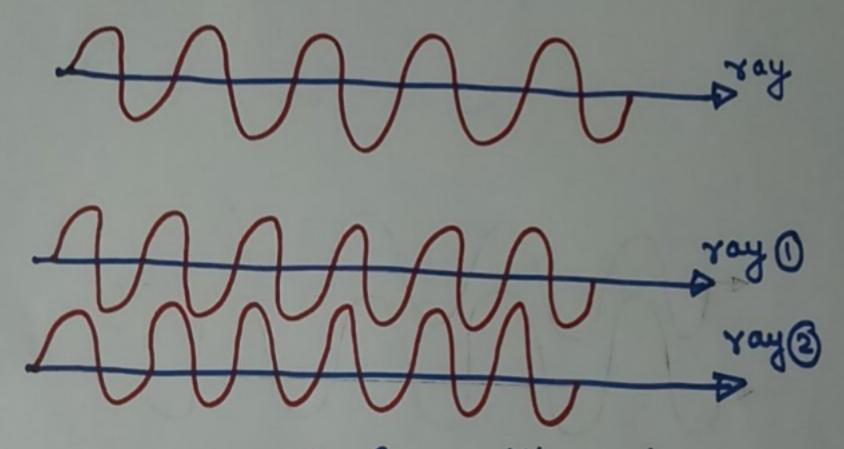
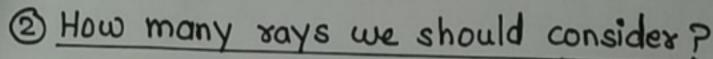
1 Parallel (rays) interfere with each other? wavenormal 1 ar wavefront

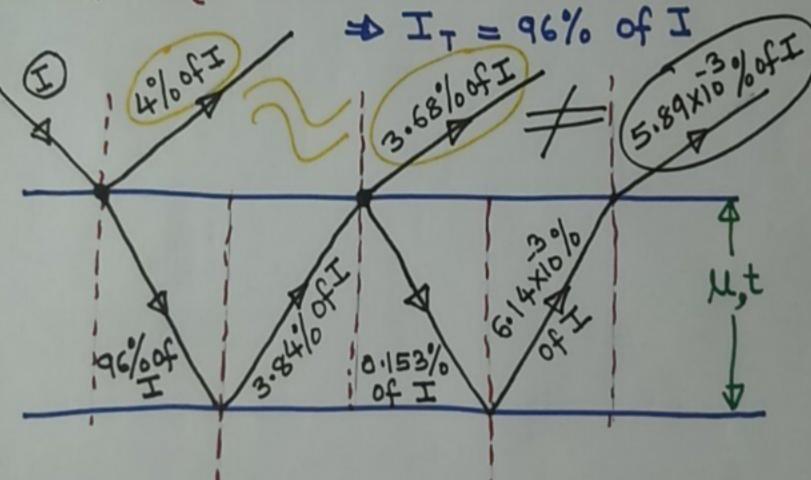


.. waves interfere with each other.



$$I_R = I\left(\frac{0.5}{2.5}\right) = I\left(\frac{1}{5}\right) = I\left(0.2\right)^2$$

IR = I (0.04) => IR = 4% of I



.. we should consider only first two rays.

3 Thickness of the film? Let t - thickness of film when t is very large - coherence may be lost. when t is very small A div. of amp./int.
may not be possible. from expt, it is found that If  $\lambda \Rightarrow$  wavelength of incident light then  $t = (\frac{\lambda}{10})$  to  $(10 \lambda)$