

$$\left[ \begin{array}{l} \Gamma = \underline{0}, \underline{\lambda}, \underline{2\lambda}, \dots \text{ Constructive interference} \\ \Gamma = \underline{\frac{\lambda}{2}}, \underline{\frac{3\lambda}{2}}, \underline{\frac{5\lambda}{2}}, \dots \text{ destructive interference} \end{array} \right.$$

Constructive maxima -

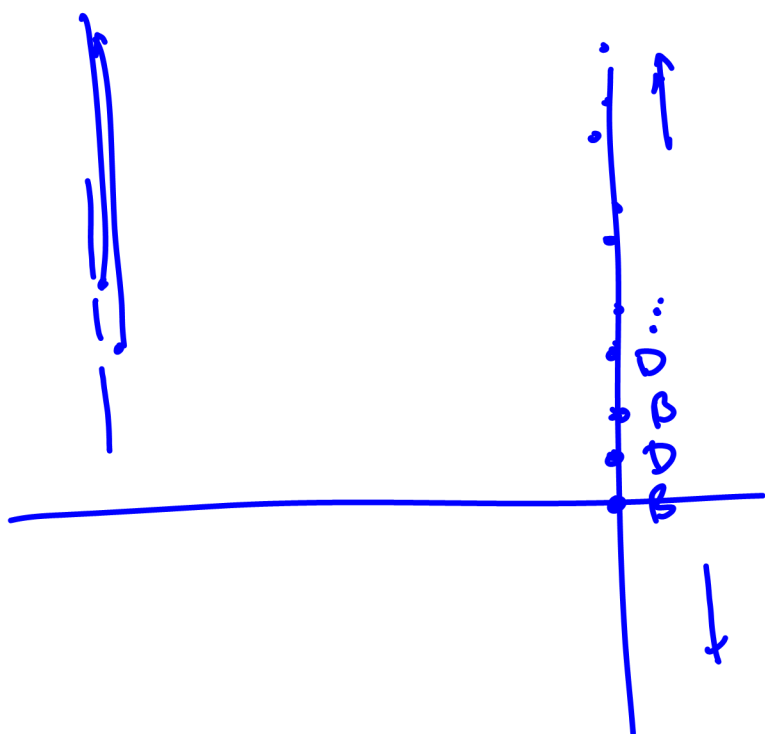
$$\Gamma = n\lambda \quad n=0,1,2,\dots$$

destructive minima -

$$\Gamma = (n+\frac{1}{2})\lambda \quad n=0,1,2,\dots$$

1. What is the path difference?

2. How is that path difference related to the wavelength? ~~of light~~



$$\underline{n\lambda} = \underbrace{d \sin \theta}_{\leq 1} \leq \underline{d}$$