Chapter 9 - Interference + Diffraction

-> coherent light - single wardength

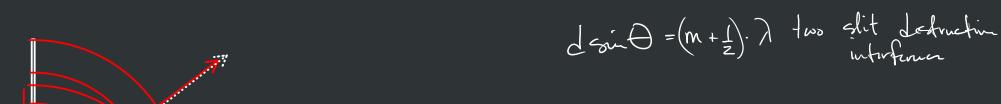
- every part of the
bean is "in phase"

or lived up n/ itself

$$\frac{\text{total distance}}{\text{a wavelength}} = \text{# of wavelengths} = \frac{10.1 \text{m}}{0.33 \text{m}} = 30.6$$

$$\frac{Q_{1}}{Q_{2}}$$

Dl = l2-l, = m ) M=0,1,2,3 ...  $\Delta l = l_2 - l_1 = (m + \frac{1}{2}) \lambda$ m=0,1,2,3... li  $\Delta l = m \lambda$ Sint = Al



d. X = m \ Snort angle approximation

$$X = \frac{7}{wy \cdot \Gamma}$$

