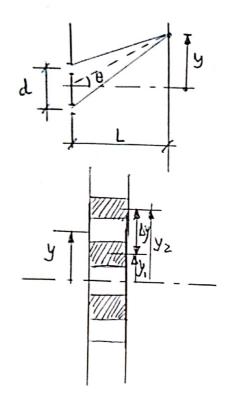
Interferencia Ondas de Luz

Problema 1

$$y_6 = \frac{\lambda L}{d} m$$
; $y_{osc} = \frac{\lambda L}{d} (m + \frac{1}{2})$



$$d = 0.25 mm$$

 $\lambda = 546.1 nm$
 $L = 1.2 m$

a)
$$y = \frac{\lambda L}{d} m$$
 con $m = L$
 $y = \frac{\lambda L}{d} = \frac{546.1 \times 10 \times 1.2}{0.25 \times 10^{-3}}$
 $y = 2.62 \times 10^{-3} (m)$

b)
$$\Delta y = y_2 - y_1$$
 con $y = \frac{1}{d} (m + \frac{1}{2})$ $m = 0, 1, 2, --$

$$\Delta y = y_2 - y_1 = \frac{\lambda L}{d} (d + \frac{1}{2}) - \frac{\lambda L}{d} (0 + \frac{1}{2})$$

$$\Delta y = \frac{\lambda L}{d} = \frac{1}{d} 2,62 \times 10^{3} m$$
interfranja.