

Datos

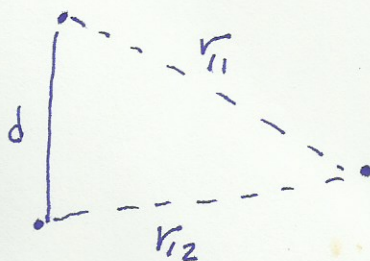
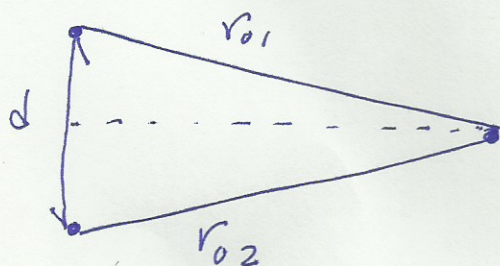
$$d = 9.0 \text{ m}$$

$$f = 120 \text{ MHz}$$

$$\left. \begin{array}{l} r_{01} = 150 \text{ m} \\ r_{02} = 150 \text{ m} \end{array} \right\} \text{ antes de moverse}$$

$$\left. \begin{array}{l} r_{11} = 150 \text{ m} \\ r_{12} = 148.2 \text{ m} \end{array} \right\} \text{ luego de moverse.}$$

② ilustrarse el problema



③ la ecuación que relaciona la diferencia de  $\phi$  con la diferencia de caminos es:

$$\frac{\phi}{2\pi} = \frac{r_1 - r_2}{\lambda}$$

$$\phi = \frac{2\pi}{\lambda} (r_{01} - r_{02}) = 0 \text{ antes de moverse.}$$

$$c = f\lambda$$

$$\phi = \frac{2\pi}{\lambda} (r_{11} - r_{12}) = \frac{2(3.14)(1.8)}{2.5} = 4.52 \text{ rad}$$

$$\lambda = \frac{3 \cdot 10^8 \text{ m/s}}{120 \cdot 10^6 \text{ Hz}} = 2.5 \text{ m}$$

④ la intensidad se determina según:

$$I = I_0 \cos^2\left(\frac{\phi}{2}\right) = I_0 \cos^2\left(\frac{4.52}{2}\right) = 0.40 I_0$$