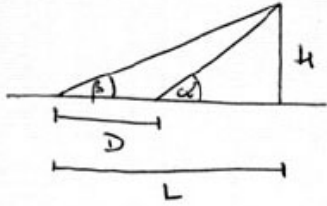


::::: SOLUCIÓN EJERCICIO 2 ::::: FÍSICA I ::::: 03 Enero 2008
 ::::: Profesor: Andrés Meza



$$\tan \alpha = \frac{H}{L-D}$$

$$\tan \beta = \frac{H}{L} \Rightarrow L = \frac{H}{\tan \beta}$$

entonces

$$\tan \alpha = \frac{H}{\frac{H}{\tan \beta} - D}$$

$$H \frac{\tan \alpha}{\tan \beta} - D \tan \alpha = H$$

$$H \left[\frac{\tan \alpha}{\tan \beta} - 1 \right] = D \tan \alpha$$

$$H = \frac{D \tan \alpha \tan \beta}{\tan \alpha - \tan \beta}$$