

Parcial 1

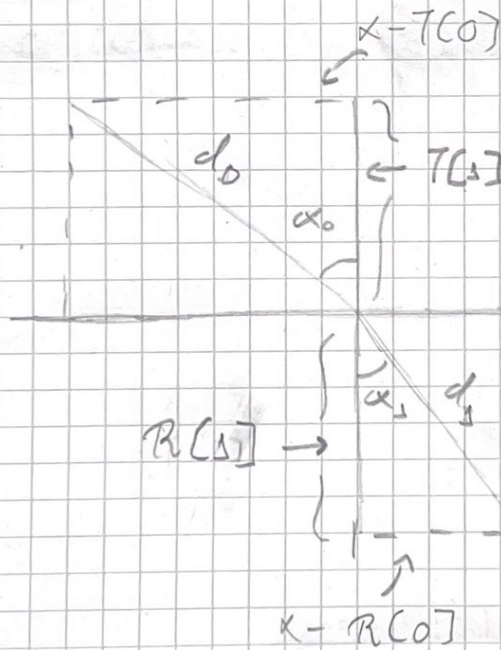
Raíces Polinómicas Punto 7

1. $\vec{T} = (-3, 2) \text{ m}$ $\vec{R} = (2, -2) \text{ m}$ $y = 0$

$$n_0 \sin(\alpha_0) = n_1 \sin(\alpha_1) \quad \eta = \frac{c}{v}$$

$$v = \frac{d}{t} \rightarrow t = \frac{d}{v}$$

$$v = \frac{c}{n}$$



$$d_{\text{total}} = d_0 + d_1$$

$$d_0 = \sqrt{(x-T(0))^2 + (T(1))^2}$$

$$d_1 = \sqrt{(x-R(0))^2 + (R(1))^2}$$

$$t_{total} = t_0 + t_1$$

$$t_0 = \frac{d_0}{v_0}$$

$$t_0 = \frac{\sqrt{(x - T[0])^2 + (T[1])^2}}{c} n_0$$

$$t_1 = \frac{\sqrt{(x - R[0])^2 + (R[1])^2}}{c} n_1$$

$$t_{total} \cdot c(x) = n_0 \sqrt{(x - T[0])^2 + (T[1])^2} + n_1 \sqrt{(x - R[0])^2 + (R[1])^2}$$

Para $n_0 = 1$ y $n_1 = 1,33$

$$t \cdot c(x) = \sqrt{(x - T[0])^2 + (T[1])^2} + 1,33 \sqrt{(x - R[0])^2 + (R[1])^2}$$