

EDO LINEALES

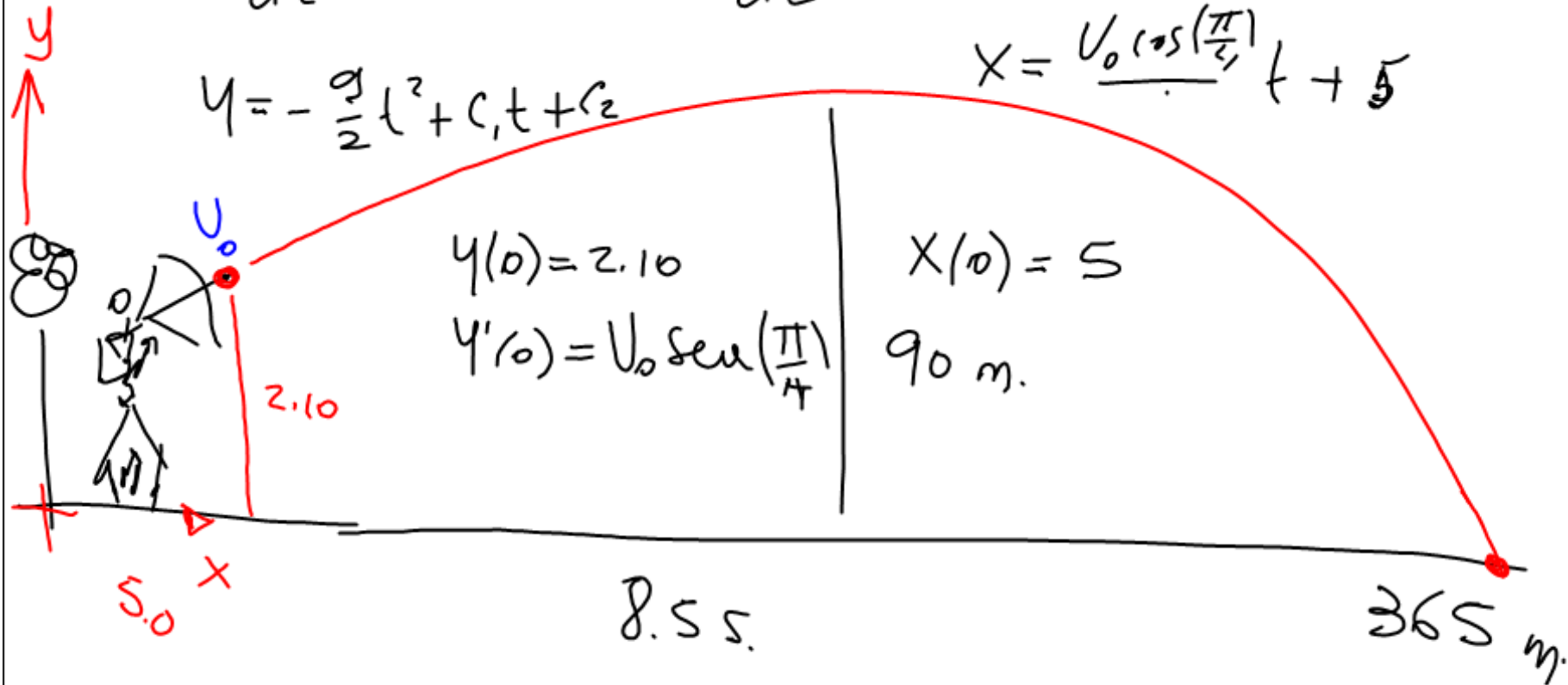
Cinemático

$$\frac{d^2 y}{dt^2} = -g$$

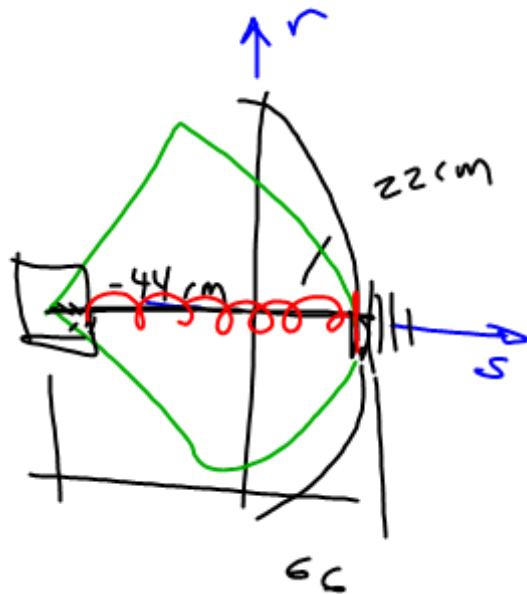
$$\frac{dx}{dt} = V_0 \cos\left(\frac{\pi}{4}\right)$$

$$y = -\frac{g}{2} t^2 + C_1 t + C_2$$

$$x = \frac{V_0 \cos\left(\frac{\pi}{4}\right)}{1} t + 5$$



dinamico



$$M \frac{d^2 s}{dt^2} = -H s$$

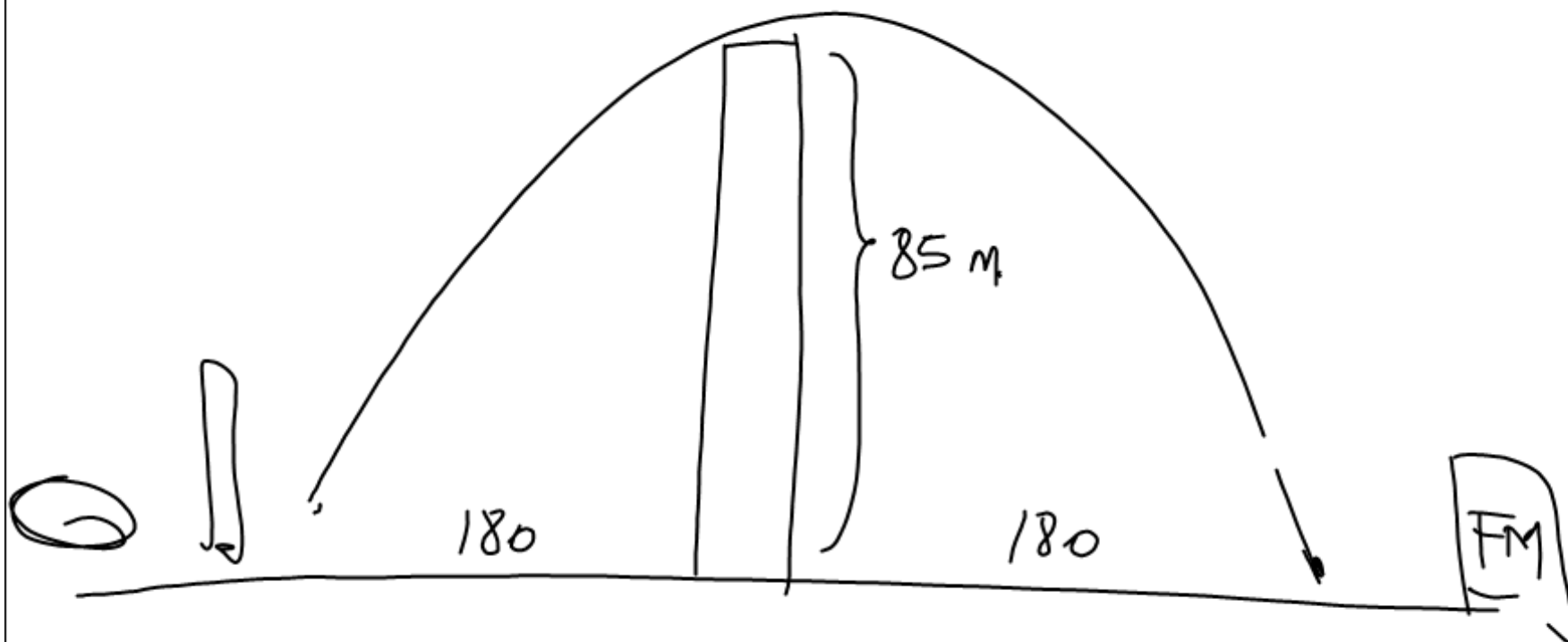
$$s(0) = -0.44 \text{ m}$$

$$s'(0) = 0$$

$$t = 0.011 \quad v = 60 \frac{\text{m}}{\text{s}} \left[216 \frac{\text{km}}{\text{h}} \right]$$

$$P = 0.020 \text{ kg}$$

$$H = \frac{19 \text{ kg}}{0.5 \text{ m}}$$



algebra $\frac{4.5}{\text{semana}} = 9 \text{ créditos}$

$$9 \times 5 = 45 \text{ h/sem.}$$