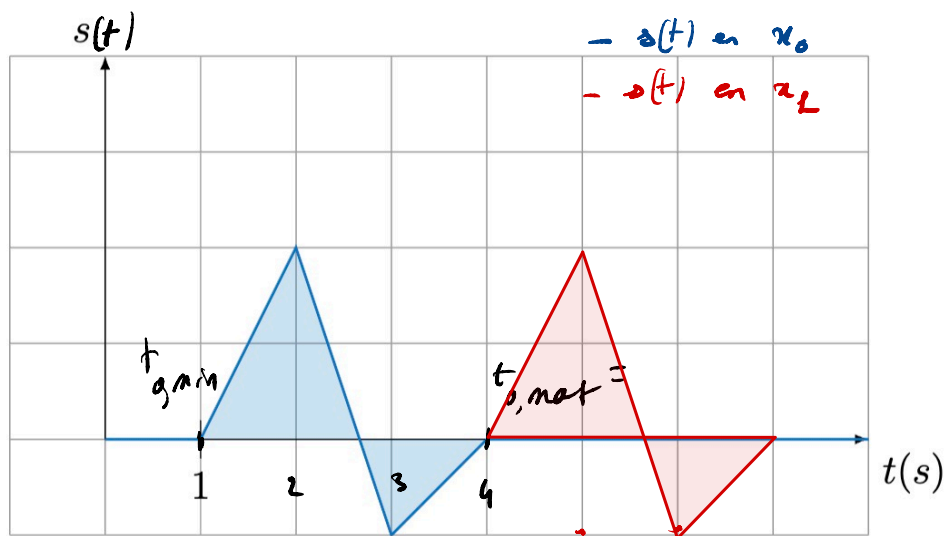


- Exercício 1 -

1



$$x_1(t) = x_0(t) + c \Delta t \quad \text{avec } \Delta t = t_2 - t_0$$

$$t_1 = \frac{x_1 - x_0}{c} + t_0$$

$$t_{1, \max} = \frac{x_1 - x_0}{c} + t_{0, \max} \rightarrow \text{A.N.} \quad t_{1, \max} = \frac{3 - 0}{1} + 4 = 7$$

$$t_{1, \min} = \frac{x_1 - x_0}{c} + t_{0, \min} \rightarrow \text{A.N.} \quad t_{1, \min} = \frac{3 - 0}{1} + 1 = 4$$

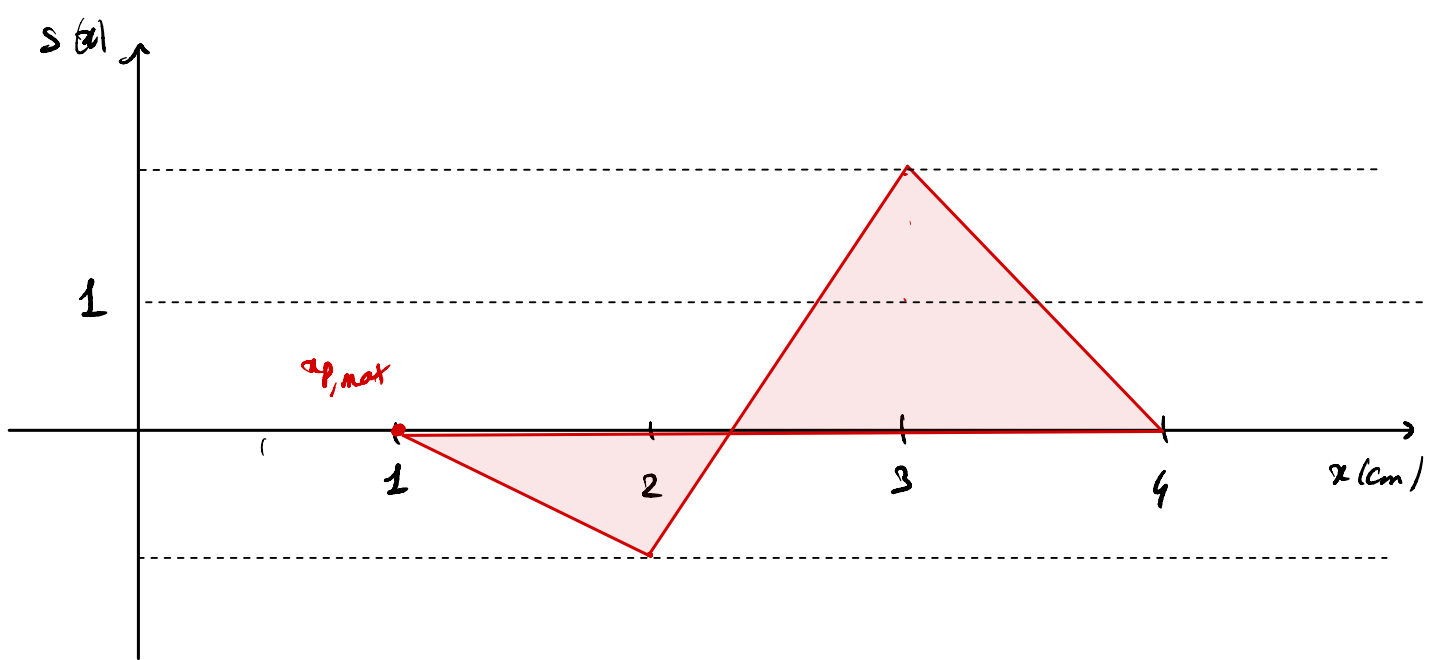
2

$$x_p - ct_p = x_0 - ct_0$$

pour $t_0 = t_{0, \max}$ $x_{p, \max} = \cancel{x_0} + c(t_p - t_{0, \max})$

$$= 1(5 - 4) = 1 \text{ cm}$$

pour $t_0 = t_{0, \min}$ $x_{p, \min} = 0 + 1(5 - 1) = 4 \text{ cm}$



R₄ Qd 1 seconde est parcourue, le signal parcourt 1 cm !