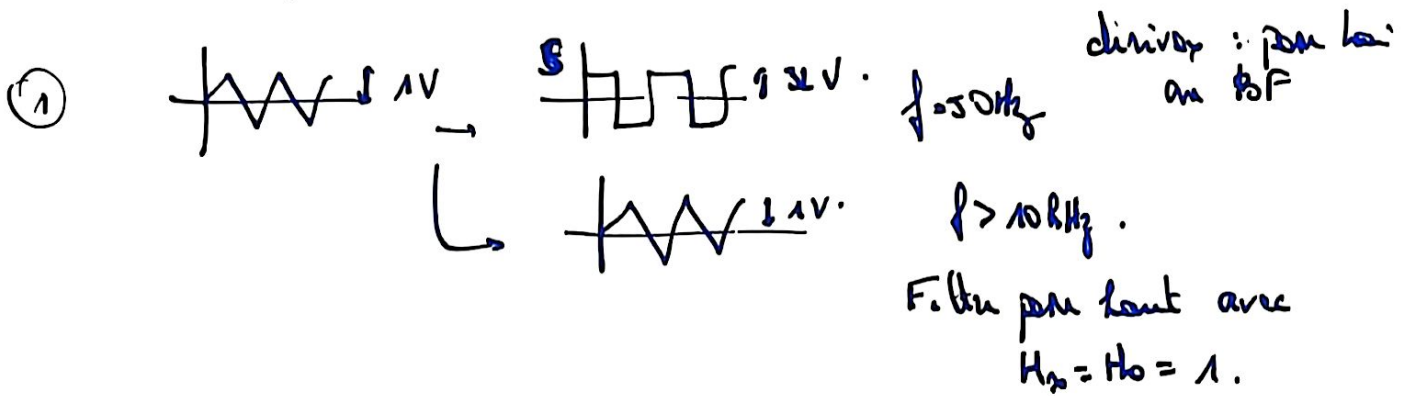


Ex 2. Identifiez ce filtre.



$$H = \frac{1}{1 + j\frac{\omega}{\omega_0}} = \int \frac{\omega}{\omega_0} ds \exp a.$$

$$\frac{V_s}{V_e} = \int \frac{\omega}{\omega_0}$$

$$\tau \omega_0 = \frac{d\tau_e}{dt}$$

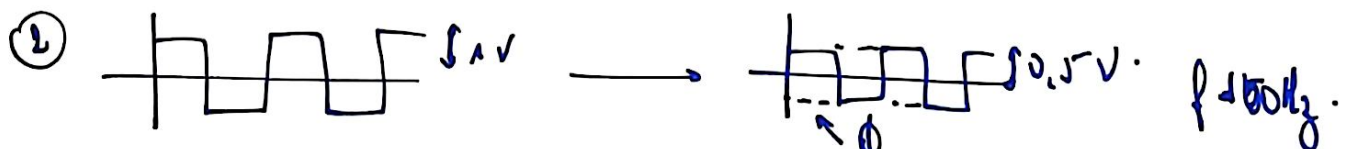
$$\tau \omega_0 = \frac{2E}{T/2} = 4Ef.$$

$$\omega_0 = 4f \frac{E}{S} = 4 \times 50 \times \frac{1}{32 \cdot 10^{-3}}$$

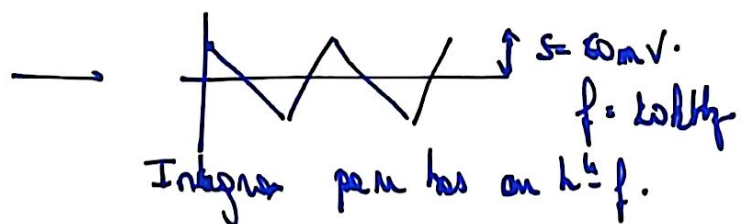
$$= \frac{200 \cdot 10^3}{32}$$

$$= 6,25 \cdot 10^3 \text{ rad/s}$$

$$f_0 = 1 \text{ kHz}.$$



Passe haut $H_0 = -\frac{1}{2}$.



$$H = \frac{H_0}{1 + j\frac{\omega}{\omega_0}} = \frac{H_0}{j\frac{\omega}{\omega_0}}$$

$$\frac{H_0 \omega_0}{f \omega} = \frac{V_s}{V_0} \implies H_0 \omega_0 \tau_c = \frac{dV_s}{dt}$$

$$\implies \frac{2S}{T/2} = \frac{4S}{T}$$

$$|H_0 \omega_0 E = \frac{4S}{T}$$

$$\omega_0 = \frac{4}{|H_0|} \frac{1}{T} \frac{S}{E}$$

$$= 8 \frac{f S}{E}$$

$$= 8 \times 20 \cdot 10^8 \frac{60 \cdot 10^8}{1}$$

$$= 9,60 \cdot 10^3 \text{ rad s}^{-1}$$

$$f_0 = 1,53 \text{ kHz}$$

12x8