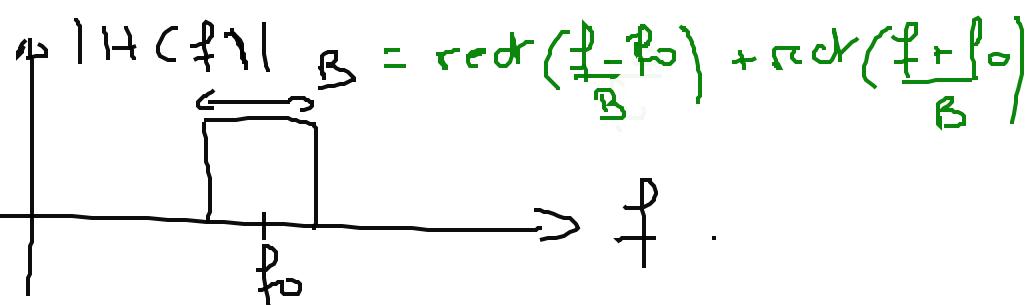


4)



filtre passe bande.

$S_r(f) = \text{DSP en sortie du filtre}$
 $(\Leftrightarrow r(r))$

$$\begin{aligned} S_r(f) &= |H(f)|^2 \cdot S_x(f) \\ &= \frac{1}{4} S_x(f-f_0) \cdot \text{rect}\left(\frac{f-f_0}{B}\right) + \frac{1}{4} S_x(f+f_0) \text{rect}\left(\frac{f+f_0}{B}\right) \\ &\quad + \frac{1}{4} S_x(f-f_0) \cdot \text{rect}\left(\frac{f+f_0}{B}\right) + \dots \end{aligned}$$

$\text{rect}\left(\frac{f+f_0}{B}\right) = 0$

