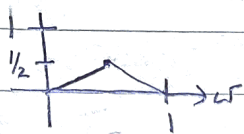


$$E[X_n] = \frac{1}{2} \text{ pour tous } n, \text{ alors } \liminf_n E[X_n] = \frac{1}{2}$$

(b)  $\liminf_n X_n = \min(X_1, X_2) =$  

$$= \begin{cases} \omega & \omega \leq 1/2 \\ 1-\omega & \omega > 1/2 \end{cases}$$

$$E[\liminf_n X_n] = 1/4$$