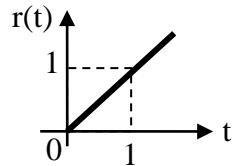


Signaux Analogiques élémentaires

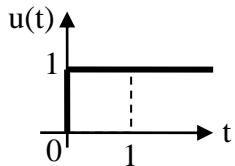
Non périodiques

Fonction rampe



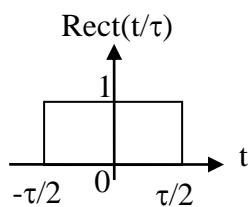
$$r(t) = \begin{cases} 0 & t < 0 \\ t & t \geq 0 \end{cases}$$

**Fonction de Heaviside
(échelon unité)**



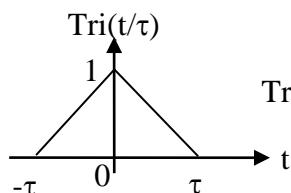
$$u(t) = \begin{cases} 0 & t < 0 \\ 1 & t \geq 0 \end{cases}$$

**Fonction Rectangle
(de durée τ)**



$$\text{Rect}(t/\tau) = \begin{cases} 1 & |t| \leq \tau/2 \\ 0 & |t| > \tau/2 \end{cases}$$

**Fonction Triangle
(de durée 2τ)**

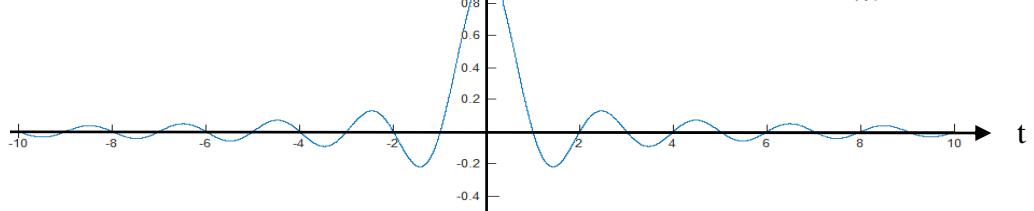


$$\text{Tri}(t/\tau) = \begin{cases} 1 - |t|/\tau & |t| < \tau \\ 0 & |t| \geq \tau \end{cases}$$

**Sinus Cardinal
(Fonction d'échantillonnage)**

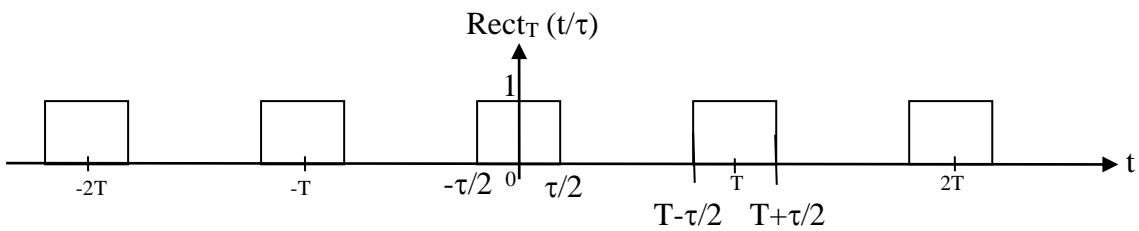
sinc(t)

$$\text{sinc}(t) = \frac{\sin(\pi t)}{\pi t}$$



Périodiques

Fonction Rectangle périodique
(durée τ , période T)



Fonction Triangle périodique
(durée 2τ , période T)

