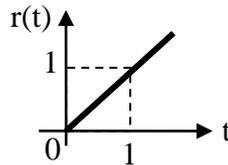


## Signaux Analogiques élémentaires

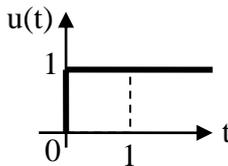
### Non périodiques

**Fonction rampe**



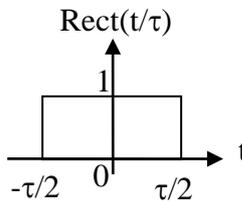
$$r(t) = \begin{cases} 0 & t < 0 \\ t & t \geq 0 \end{cases}$$

**Fonction de Heaviside  
(échelon unité)**



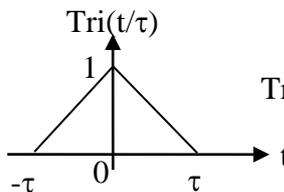
$$u(t) = \begin{cases} 0 & t < 0 \\ 1 & t \geq 0 \end{cases}$$

**Fonction Rectangle  
(de durée  $\tau$ )**



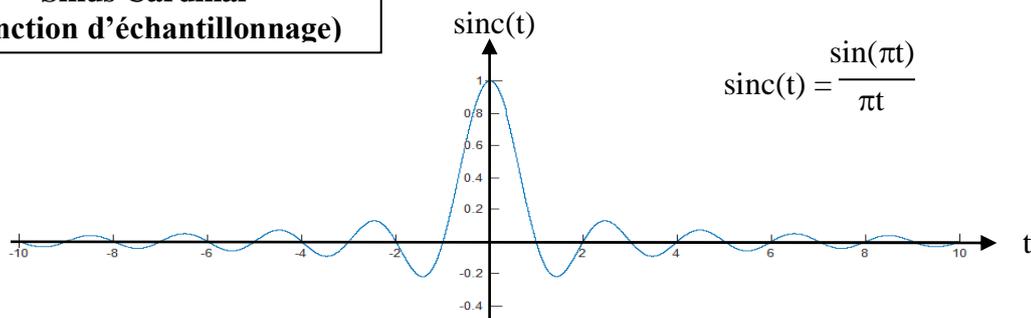
$$\text{Rect}(t/\tau) = \begin{cases} 1 & |t| \leq \tau/2 \\ 0 & |t| > \tau/2 \end{cases}$$

**Fonction Triangle  
(de durée  $2\tau$ )**



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

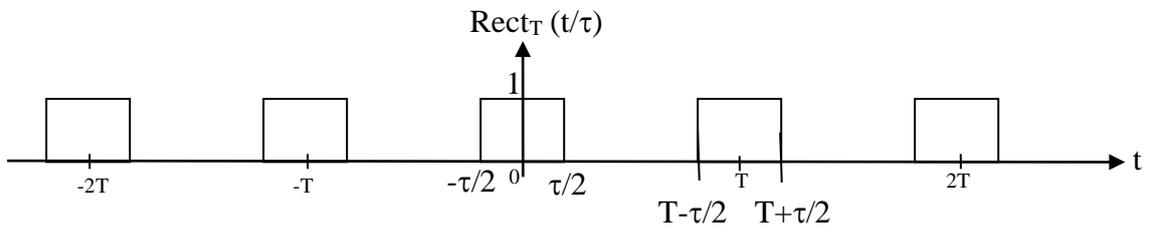
**Sinus Cardinal  
(Fonction d'échantillonnage)**



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

## Périodiques

### Fonction Rectangle périodique (durée $\tau$ , période $T$ )



### Fonction Triangle périodique (durée $2\tau$ , période $T$ )

