





## A more mathematical approach .:

$$\chi(t) = \begin{cases} 0 & t < 0 \\ 1 & 0 < t < 1 \end{cases} \Rightarrow \chi(\frac{3}{2}t+1) = \begin{cases} 1 & 0 < \frac{3}{2}t+1 < 0 \\ 1 & 0 < \frac{3}{2}t+1 < 1 \end{cases}$$

$$-t+\lambda |(< t < \lambda)| = \begin{cases} -(\frac{3}{2}t+1)+\lambda & |(\frac{3}{2}t+1)<\lambda| \\ 0 & t > \lambda \end{cases}$$

$$0 & \frac{3}{2}t+1 > \lambda$$

$$\Rightarrow \lambda(\frac{2}{5}t+1) = \begin{cases} 0 & t < -\frac{2}{3} \\ 1 & -\frac{2}{3} < t < 0 \end{cases}$$

$$\begin{vmatrix} -\frac{2}{5}t+1 & 0 < t < \frac{2}{3} \\ 0 & t > \frac{2}{3} \end{aligned}$$