Valenzuela

ii)

$$F_W(t) = P(\max\{X, Y\} \le t) = P(X \le t \cap Y \le t) =$$

$=$ (independientes) $P(X \le t) \cdot P(Y \le t) = F_X(t) \cdot F_Y(t) =$ (Es lo misma F) $F_X^2(t)$

$$g_X(t) = \begin{cases} 1 & \text{si } t \in [0,1] \\ 0 & \text{si } t \notin [0,1] \end{cases} \qquad F_X(t) = \begin{cases} 0 & \text{si } t \le 0 \\ t & \text{si } 0 < t < 1 \\ 1 & \text{si } 1 \le t \end{cases}$$

$$F_W(t) = \begin{cases} 0 & \text{si } t \le 0 \\ t^2 & \text{si } 0 < t < 1 \\ 1 & \text{si } 1 \le t \end{cases}$$

$$g_W(t) = F'_W(t) = \begin{cases} 2t & \text{si } t \in (0,1) \\ 0 & \text{si } t \notin (0,1) \end{cases}$$

$$E(T) = \int_{-\infty}^{\infty} s \cdot g_{W+Z}(s)\, ds$$

$2 \to x^2$

no se calcula la parte de i ...

$1 \le t - x$

$1 + x \le t$

t