```
may nows Light 8+ notes (x'x) 499 enter use on 1911
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    S_{x,y}(x,y) = S = \frac{3}{2} = \frac{1}{2}, o(x) = o(x)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            E(X) = E(Y) 5 DIN
                 E(X) = \frac{8}{5} \frac{8}{5} x + (x, y) dxdy = \frac{8}{5} \frac{9}{5} x + \frac{7}{5} \frac{1}{5} \frac{1}{5} x + \frac{7}{5} \frac{1}{5} \frac{1}{5} x + \frac{7}{5} \frac{1}{5} \frac{1}{5}
                                                              = 1 \quad y = x 
dy = x 

                                                               = 5 40-4 dy =
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             $e<sup>-3</sup>$x ± e ± dx dy ~0 pb po) ≥
     TNEXP() = 2-(4) = 20-74 E(T)=
                                                                                                                                                                                                                                                                                                                                                                                                                              N= 5 PO THERDES MADE TO STUDIO
                                                                                                                                                                                                                                                                                                                                                                                                                                                   المعامم والمناحد مها عاص
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           350 × 60 after menor se my cet
                                                                                                                                                                                                                                                                                                                \int_{0}^{2} e^{-\frac{y}{3}} dx = \int_{0}^{2} e^{-\frac{y}{3}} dx = \int_{0}^{2} e^{-\frac{y}{3}} dy = \int_{0}^{2} e^{-\frac{y}{3}} dx = 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            5,400 AC
                                                                                                                                                                                                                                                                                                                                                                                                                            126 Jan 2011
       55-(t) de =1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ECX) = E[E(X/Y)] : 100U 78
   E(x) = E[E(x/Y)]
   E[X|Y=Y] = \int_{-\infty}^{\infty} x S_{XY=2}(x-|Y|) dx
S_{x_1 x_2 y}(x_1 y) = S_{x_1 x_2}(x_1 y) = 0
S_{x_1 x_2 y}(x_1 y) = 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           X 14=2 N Exp(X = \frac{1}{3}) : 0 1507
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            E(X17=3) = 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            E(X|Y) = Y
```

81- NINE



```
Px X R Ni
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     P(s=t) = \underbrace{\xi}_{g} P(x=t-y) + \underbrace{\xi}_{g} P(x=t-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        F_{s}(t) = S_{x+y}(t) = S_{x+
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           No Y ~ Exp(X) -! X ~ Exp(X) HOU mupa
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   S = X + Y \wedge T(\lambda = 2, \lambda) nge
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             T_{N} f_{1}(a, \lambda) \iff f_{-}(x) = \begin{cases} \lambda^{2} x^{2-1} e^{-\lambda x}, & x > 0 \end{cases}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    T' \cap T'(2, \lambda) \Leftrightarrow S_{T'}(x) = \begin{cases} \lambda^2 & \alpha' \in \mathbb{R}^{2\lambda}, & \infty \\ 0, & \infty \end{cases}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   cx , x^{4} = 0.6 
cx , x^{4} = 0.6 
cx ; x^{4} = 0.6 
cx ;
5x+y(t) = 5xe-xy = xe-x(t-y)dy = 5x^2e^{-xt}dy = x^2e^{-xt}dy = x^2e^{-xt}t
```