





Discrete > NO PDF> no derNative Continuous > NO PIMF X~ Exp(1) = 7e-7x exponential PDF set all possible volues a < Supp W = (0,0) 7 = MP r.V con PELO,1) realizeto 16 (0,0) n EIN E(x) = 3x7-7x dx = 7 (xe = x (x) (- + e-xx) - (+ e-xx) Sudv = uv-Svdu let dv= e-7xdx => v= ge xx = - 1 e xx => gvdu = g- 1 e xx = 1 e 2x = - [xe + 1 - 7x] = - (lim xe 1x + lim 1 e 7x) -(0e0+1e-10)) = - ((0-0) - (0+ 1))= 1 Memoryless Property $P(X>a) = P(X>a+b|X>b) = \frac{P(X>a+b|X>a)}{P(X>b)}$ = P(X >atb) e-7 ae-76 $\frac{e^{-\lambda(a+b)}}{\rho^{-\lambda b}} = e^{-\lambda a} = \rho(x>a)$ P(X>6)

