PLAID = PLAND = 1+0-26

1) E(x^2] = t(x^2/A]P(A) + t(x/B)P(B) = 1+9:9 $E(X) = \frac{2}{3}$ Var (X) = 16 - 6 : 3

() (1/2/2)²

f) $(\frac{12}{4})(\frac{1}{2})^{12}$

9) [2 [-5 3-5]

h) {= first 2 type 1} fy(y)= 9/2 y 70 tyles: c, to

P(1 28) = 5 aye 2/1-01)ly

1) V= Type B illumination time.

N: Type B and of 12 X1= ith Bbill the ENJ = 6 Var(N): 12x 4=3 E(xi)= = & Vor(xi) = q E[V]=2 Var(v) = \f. 6+ \f. 3=1

Extra

$$t_1 = 1$$
 $t_2 = 2$.

$$P(k,T_1) P(k_1,T_2)$$
 $K_1=1$
 $K_2=2$
 $T_1=1$
 $K_2=4$
 $K_2=4$
 $K_3=4$
 $K_4=4$
 $K_4=4$

 $2N(1) = Rousen with <math>\lambda = \lambda, + \lambda_2 = 3$ P(N(1) = 2. N(1):5) - P/2 crival in (C.1) 3 uvival in (1.7) $=\frac{(e^{3}.3)}{71}(e^{3}.3)$ =025 N(1)=2 -> [(N(1)=1,N(2)=2) 2 P(N(1) =1, N2(1)=1) P/(1,(1)=2) = P(N.(1)=1).P(N/2(1)=1) P(N(1)=2)

20,4444