$V \mid C \mid$, V

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 - VN96/N V1,3/0 3
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$$X = \{x_1, x_2, \dots, x_n\}$$
 (186 60 - 6 N3 (27. 1) 1) 1) : 1) 25 N

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X 182 607617 Re 1720 DIN 1/37112 P(x) 1/11 . K NINNONI) SC NIZZNOII) N'3/110 \$ (K) 12 N 10017) "X 11107 |031N 60 LOJ 10 VISE | FUILL A , L'FIOUL $P_{\chi}(g) = \sum_{k \in K} P(k = \kappa) P(X = \mathcal{L}_{\kappa}(g))$

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$$P(Y=y) \times = x = \sum_{\kappa \in K} P(K=\kappa)$$

$$x = 2 (y)$$

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$$P_{X}(a) = \frac{1}{4}$$
 $P_{X}(b) = \frac{3}{4}$
 $P_{K}(h_{z}) = P_{K}(h_{3}) = \frac{1}{4}$

$$P_{y}(y) \sim (103N)$$
 (10)
 $P(X=x)Y=y) \sim (103N)$

$$e_{k_1}(\alpha) = 5$$
 $e_{k_2}(\alpha) = 7$

e113 (a) = U

$$e_{k_{z}}(b) = 1$$
 $e_{k_{z}}(b) = 0$
 $e_{l_{13}}(b) = 0$

$$\frac{d_{K_1}(S) = a}{d_{K_1}(U) = \phi} \qquad \frac{d_{K_2}(S) = \phi}{d_{K_2}(U) = b}$$

$$\frac{d_{K_1}(S) = \phi}{d_{K_3}(S) = \phi} \qquad \frac{d_{K_2}(S) = \phi}{d_{K_3}(T) = \phi}$$

 $d_{\kappa_1}(T) = b$ $d_{\kappa_2}(T) = a$

 $A_{\kappa_1}(V) = \phi \qquad A_{\kappa_2}(V) = \phi$

 $d_{13}(U) = a$

$$\begin{array}{c|c} X & a & b \\ \hline K & 5 & T \\ \hline K & T & U \end{array}$$

$$\begin{array}{c|c} P_X(a) = \frac{1}{4} \\ \hline P_K(k_1) = \frac{1}{2} \end{array}$$

$$P(Y=y) = \sum_{k \in \{k_i, k_j, k_j\}} P(K=k) \cdot P(X=k_i(y))$$

d17, (V)=6

$$P(Y_{=s}) = P(K_{=n},)P(X_{=n},)P($$

$$P(Y = S | X = 6) = \sum_{K \in \{K_1, K_2, K_3\}} P_K(h) = P_K(K_1) = \frac{1}{3}$$

$$P(Y = U) | X = a) = \sum_{K \in \{K_1, K_2, K_3\}} P_K(h) = P(K = K_3) = \frac{1}{3}$$

$$P(X = A_K(U)) = P(X = A_K(U))$$

$$P(X = A$$

P(Y=y|X=x) = P(Y=y)

. J'en

: >>'> 5

$$P_{h}(h_{i}) = \frac{1}{6} \quad P_{h}(h_{z}) = \frac{1}{3}$$

$$P_{h}(h_{3}) = \frac{1}{2}$$

$$P_{X}(a) = \frac{3}{5}$$
 $P_{X}(a) = \frac{3}{5}$

$$P\left(X=c\mid Y=Z\right) \qquad \text{se } n \ (>e \ n \) \)))))$$

. Modern
$$N''910$$
 C' NOTEN - (CO') $= \frac{1}{k_1 k_2 k_3} P(d_{k}(u)) P_{K}(k)$

$$=P\left(X=J_{\kappa_{1}}(0)\right)P_{\kappa}(k_{1})+P\left(X=J_{\kappa_{2}}(0)\right)P_{\kappa}(k_{2})+P\left(X=J_{\kappa_{3}}(0)\right)P_{\kappa}(k_{3})$$

$$- \frac{1}{2} (1) \frac{1}{2} (H,) = \frac{2}{5} \cdot \frac{1}{6} = \frac{1}{15}.$$

$$|P(Y=V)| = |P(X=V)| + |P(X=V)|$$

$$\uparrow \left(X = c \mid Y = Z \right) \quad (>)$$

$$P(Y=Z|X=c) = \sum_{H_1, H_2, H_3} P_H(H)$$

$$A(Z)=c$$

$$= P_{K}(K_3) = \frac{1}{2}.$$

$$P(B|A) = P(A|B)P(B)$$

$$P(A)$$

$$P(X=c|Y=Z) = P(Y=Z|X=c)P(X=c) = (\frac{1}{2})(\frac{2}{5}) = 1$$

$$y \in Y \text{ (see X do S) } \int_{0}^{\infty} p(x) \Lambda N de(N) N \cdot P(O(C') \Lambda D Y N) dx$$

$$Q(A) = \frac{1}{2} (\frac{1}{2})(\frac{2}{5}) = 1$$

$$Q(A) = \frac{1}{2} (\frac{1}{2})(\frac{2}{5}) = 1$$

$$y \in Y$$
 , $s \in X$ dust $g' \in X$ and $g' \in X$ and $g' \in Y$ and $g' \in Y$

$$P(X=c) = \frac{1}{2}$$

(3) (> \frac{1}{2}\text{8000 N(1.3) N(1.3)}

P(X=c) = \frac{2}{5} - e \ \left| \text{1.0.1}

P(X=c) = \frac{2}{5} - e \ \left| \text{1.0.1}

$$\frac{1}{2} = P(X = c| Y = z) \neq P(X = c) = \frac{z}{5}$$

$$NNSPIN NIFIO PS$$

>< = d (y)

 $SC = \frac{1}{K}(y) \qquad \text{(NII)} \qquad \text{(NIII)} \qquad \text$