N zoustavimo se kod 17wčemo plaw ili byelu.

$$F = P(S)$$

$$P(P) = \frac{8}{2h} = \frac{1}{3}, P(c) = \frac{6}{24} = \frac{1}{4}$$

$$P(B) = \frac{10}{2h} = \frac{5}{12}$$

$$P(C - CP) = (\frac{1}{4}) \cdot \frac{1}{3}$$

$$P(C - CB) = (\frac{1}{4}) \cdot \frac{5}{12}$$

$$P(A) = P(P) \cup \{CP\} \cup \{CCP\} \cup \{CCCP\} \cup -\}$$

$$= \sum_{k=0}^{\infty} P(C - CP) = \sum_{k=0}^{\infty} (\frac{1}{4})^k \cdot \frac{1}{3} = \frac{1}{3}, \quad \frac{1}{1 - \frac{1}{4}} = \frac{1}{3} \cdot \frac{4}{3} = \frac{4}{3}$$

$$\mathcal{L} = \{P, B, CP, CB, \dots, CCCCCCP, CCCCCCB\} = \text{busion provior}.$$

$$\mathcal{F} = \mathcal{P}(\Omega), P(P)$$

$$P(A) = \frac{6}{2h} P(CC - CP) = \frac{8}{2h} + \frac{6}{2h} \cdot \frac{8}{23} + \frac{6}{2h} \cdot \frac{5}{23} \cdot \frac{8}{22} + \frac{6}{2h} \cdot \frac{5}{23} \cdot \frac{4}{21} \cdot \frac{8}{23} + \frac{6}{21} \cdot \frac{5}{23} \cdot \frac{4}{21} \cdot \frac{8}{23} + \frac{6}{21} \cdot \frac{5}{23} \cdot \frac{4}{21} \cdot \frac{8}{23} \cdot \frac{1}{21} \cdot \frac{1}{21} \cdot \frac{1}{23} \cdot \frac{1}{21} \cdot \frac{$$

$$A = \begin{cases} \text{ ned } 0 \text{ odobove } 3, \text{ vise a planh near byellh} \end{cases}$$

$$P(A) = \frac{\binom{8}{1}\binom{6}{2}\binom{10}{0} + \binom{8}{2}\binom{6}{6}\binom{10}{0} + \binom{8}{3}\binom{6}{5}\binom{10}{0} + \binom{8}{2}\binom{6}{6}\binom{10}{0}}{\binom{24}{3}}}{\binom{24}{3}\binom{24}{3}} = \frac{8 \cdot 3 \cdot 5 + 4 \cdot 7 \cdot 6 + 8 \cdot 7 + 4 \cdot 7 \cdot 10}{24 \cdot 23 \cdot 22} \cdot 6 = 0_1 3083$$

$$d) \quad P(A) = \binom{3}{4}\binom{8}{24}\binom{6}{24} + 2P \circ B \cdot 1C + 3P \circ 30C = 2P \cdot 1B0C$$

$$P(A) = \binom{3}{4}\binom{8}{24}\binom{6}{24} + \binom{3}{24}\binom{6}{24}\binom{6}{24} + \binom{3}{24}\binom{6}{24}\binom{6}{24}\binom{10}{24} + \binom{8}{24}\binom{3}{24}\binom{6}{24}\binom{10}{24}\binom$$

$$P(A) = P(A|H_0)P(H_0) + P(A|H_1)P(H_1) + P(A|H_1)P(H_2) + P(A|H_3) \cdot P(H_3)$$

$$P(H_0) = \frac{\binom{4}{3}}{\binom{10}{3}} \cdot P(H_1) = \frac{\binom{6}{3}\binom{4}{3}}{\binom{10}{3}} \cdot P(H_2) = \frac{\binom{6}{3}\binom{4}{3}}{\binom{10}{3}} \cdot P(H_3) = \frac{\binom{6}{3}}{\binom{10}{3}}$$

$$P(A|H_0) = P(P(P_1) + P(P_2) \cdot P(P_3) = \frac{\binom{5}{3}\binom{6}{3}}{\binom{10}{3}} \cdot P(A|H_1) - P(P(P_1) - P(P_2) - P(P_3) = \frac{\binom{5}{3}\binom{6}{3}}{\binom{10}{3}} \cdot P(A|H_2) = P(P(A|H_3) - P(P_3) = \frac{\binom{5}{3}\binom{6}{3}}{\binom{10}{3}} \cdot P(A|H_3) = 0$$

 $= 0.2333333 = \frac{75}{330}$ P(Ho)A) = P(A1Ho).P(Ho) = 34 20058 - 00063 $P(H_{\lambda}|A) = P(A|H_{\lambda}) \cdot P(H_{\lambda}) = \frac{315}{23} \times 0.652$ $P(H_{\lambda}|A) = P(A|H_{\lambda}) \cdot P(H_{\lambda}) = \frac{320}{69} = 0.290$

Sin $\mathcal{B}(3n, \frac{1}{2})$.

 $E(S_n) = \frac{3}{2}n$, $D(S_n) = 3n \cdot \frac{1}{2} \cdot \frac{1}{2} = \frac{3n}{4}$

5)
$$Y_{k} = 3 - X_{k}$$

 $X_{1} = 0 \Rightarrow Y_{1} = 3$
 $X_{1} = 1 \Rightarrow Y_{k} = 2$
 $X_{1} = 2 \Rightarrow Y_{1} = 1$
 $X_{2} = 3 \Rightarrow Y_{1} = 0$

XI	0	1	2	3
0	0	0	0	1/8
1	0	0	3/8	0
2	0	3/8	0	0
3	18	0	0	0

c) Injet:
$$V_1 = 3 - X_1 = 7(X_1, Y_1) = -1$$

d)
$$\mathbb{P}(X_1 = i, Y_2 = j) = \mathbb{P}(X_1 = i) \mathbb{P}(Y_2 = j) = {3 \choose i} {1 \choose 2}^3 \cdot {3 \choose j} \left({1 \choose 2}^3\right)^3$$

X, i 42 su netousne

e) X, ; Y2	2 hermine	
br K	r(x1,42)=0	

f) Pojkaladi dokat u kypir

Pointing upod gall & 1:
$$+ + + = 1$$

$$C_{1} = -\frac{3}{2}C_{1} = 1$$

$$C_{2} = \frac{1}{15}$$

$$C_{3} = -\frac{3}{2}C_{2} = 1$$

$$C_{4} = -\frac{3}{2}C_{5} = 1$$

$$C_{5} = -\frac{3}{2}C_{5} = 1$$

$$C_{7} = -\frac{3}{2}C_{5} = 1$$

$$C_{8} = -\frac{3}{2}C_{5} = 1$$

$$C_{1} = -\frac{3}{2}C_{5} = 1$$

$$C_{2} = \frac{1}{15}C_{5} = 1$$

$$C_{1} = -\frac{3}{2}C_{5} = 1$$

$$C_{2} = \frac{1}{15}C_{5} = 1$$

$$C_{3} = -\frac{3}{2}C_{5} = 1$$

$$C_{4} = -\frac{3}{2}C_{5} = 1$$

$$C_{5} = -\frac{3}{2}C_{5} = 1$$

$$C_{7} = -\frac{3}{2}C_{7} = 1$$

$$C_{8} = -\frac{3}{2}C_{7} = 1$$

$$C_{1} = -\frac{3}{2}C_{7} = 1$$

$$C_{1} = -\frac{3}{2}C_{7} = 1$$

$$C_{1} = -\frac{3}{2}C_{7} = 1$$

$$C_{2} = -\frac{3}{2}C_{7} = 1$$

$$C_{3} = -\frac{3}{2}C_{7} = 1$$

$$C_{4} = -\frac{3}{2}C_{7} = 1$$

$$C_{5} = -\frac{3}{2}C_{7} = 1$$

$$C_{7} = -\frac{3}{2}C_{7} = 1$$

$$C_{8} = -\frac{3}{2}C_{7} = 1$$