· X: lidik dostævene bodi ? X: kolih dostaneme bodi z :-te otazhy? $\rightarrow \times = 2 \times; = > F[\times] = 2 F[\times] \dots$ zonerne se na · U: wili jeme se ma i-tou otazler? · IE[x: 10: =1] ? $= 2 \times PV[X=\times |U:=1] =$ 1 re radient . Pr[U;=1]? = p u radant · P([X; a U;=1]= P([X: |U; =1] P([U;] = P (Ui je netavisti na X; pro itj) · E[X/V10V21...n V20] = 20p bedong risk, pohad tipm i ten stårhu språvni P/ - T; = { 1 -1/4 rodporin dobie => E[X:] = E[X:n U:=1]+ + E[X: O: =00 Ti=1] + E[X; ~ U; =0 ~ T; =0] = uil jeun se na tipust jeun ji dobre?

:-ton olarku?

$$= p + (1-p)^{-\frac{1}{4}} \cdot 1 + (1-p)^{-\frac{3}{4}} \cdot (-\frac{1}{4}) - P_{1}[U;=0] + (1-p)^{-\frac{3}{4}} \cdot (-\frac{1}{4}) - P_{1}[U;=0] + P_{1}[U;=0]$$

pri sprivní odpoud

$$= p + \frac{1-p}{4} - \frac{3(1-p)}{16} = \frac{15p + 4-4p - 3+3p}{16} = \frac{15p + 1}{16}$$

X: je journaire airècre podle T:, to nevadi

C) restort vormici pro X

$$\frac{1}{4}(1-p) = \frac{3}{4}(1-p) \times$$

6.

X+Y mer, jæk doche trale, ner poporé padly du panny

hod, puk prim byla uniformit prim až (n-1). hod

entrue inflorible

$$P([X=k] = (1-p)^{k} p$$

$$P([X=k] = (1-p)^{k} p$$

$$P([X=i] \times Y=n] = \frac{P([X=i]P([Y=n-i])}{P([X+Y=n])}$$

$$P([X=i] \times Y=n] = \frac{P([X+Y=n])}{P([X+Y=n])}$$

$$= \frac{(1-p)^{i-1} p}{2!} \frac{(1-p)^{n-i-1} p}{2!} \frac{(1-p)^{n-2} p^{2}}{2!} \frac{(1-p)^{$$

$$=\frac{1}{h-1}$$