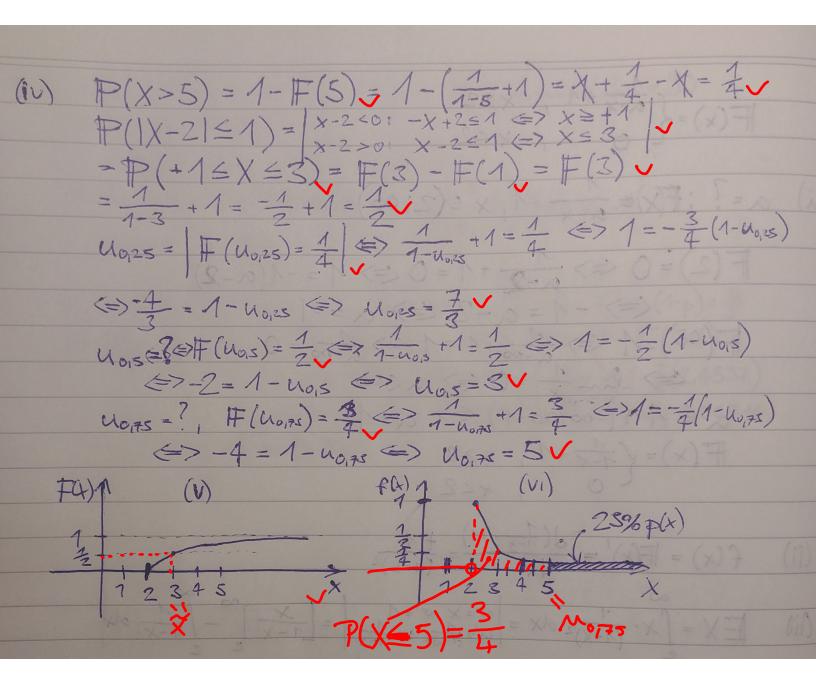
1. balen' = 200 kus3 peccent = 13; objedna'vka = 90 P(kompletn' > 70) = ? $K \sim Bi(n, p)v$ n = 90, p = 23 $P(K > 70) = Marker 1 - E^{70}P(K_i)$ Pomoci' CLV90 P(K = i) P(K = i) $P(K_i) = 0$ $P(K_i) = 0$

 $F(x) = \begin{cases} \frac{1}{a-x} + 1, & x \ge 2 \\ 0, & x < 2 \end{cases}$ $\alpha = ? F(x) = \frac{1}{\alpha - x} + 1, x \in (2; \infty)$ F(2)=0 (=> 1=-1(a-2) a e 1/1 (-00,00-1) (=>, a=1 $F(x) = \begin{cases} \frac{1}{1-x} + 1, & x \ge 2 \\ 0, & x < 2 \end{cases}$ $f(x) = \#(x)' = \frac{d(\frac{1}{1-x}+1)}{dx} = \frac{d(\frac{1}{1-x}+1)}{(1-x)^2} = \frac{1}{1-x} = \frac{1}{1-x$ (ii) (iii) $= \begin{bmatrix} \frac{1}{1-x} & \frac{1}{1-x} &$ vanX = v poznámkách je vozptyl definován
pokud střední hodnota leží -00 < X < 00 talse or mase on mi pade mem i



2.
$$P(H|S) = \frac{1}{3}$$
 $P(H|H) = \frac{2}{3}$ $P(M) = \frac{2}{3}$

M $P(I) = P(I|S) \cdot P(S) \cdot P(I|H) \cdot P(H)$

$$= \frac{2}{3} \cdot \frac{4}{3} + \frac{4}{3} \cdot \frac{2}{3} = \frac{2}{5} + \frac{3}{5} = \frac{4}{5}$$

(Ph) $P(H|H) = \frac{P(H|H) \cdot P(H)}{P(H)} = \frac{P(H|H) \cdot P(H)}{P(H)}$

$$= \frac{2}{3} \cdot \frac{2}{3} + \frac{2}{3} \cdot \frac{2}{3} = \frac{4}{5}$$

(A) $P(H|S) = \frac{2}{3} \cdot \frac{2}{3} \cdot \frac{2}{3} \cdot \frac{2}{3} = \frac{4}{5} \cdot \frac{2}{5}$

(B) $P(S) = \frac{2}{3} \cdot \frac{2}{3}$