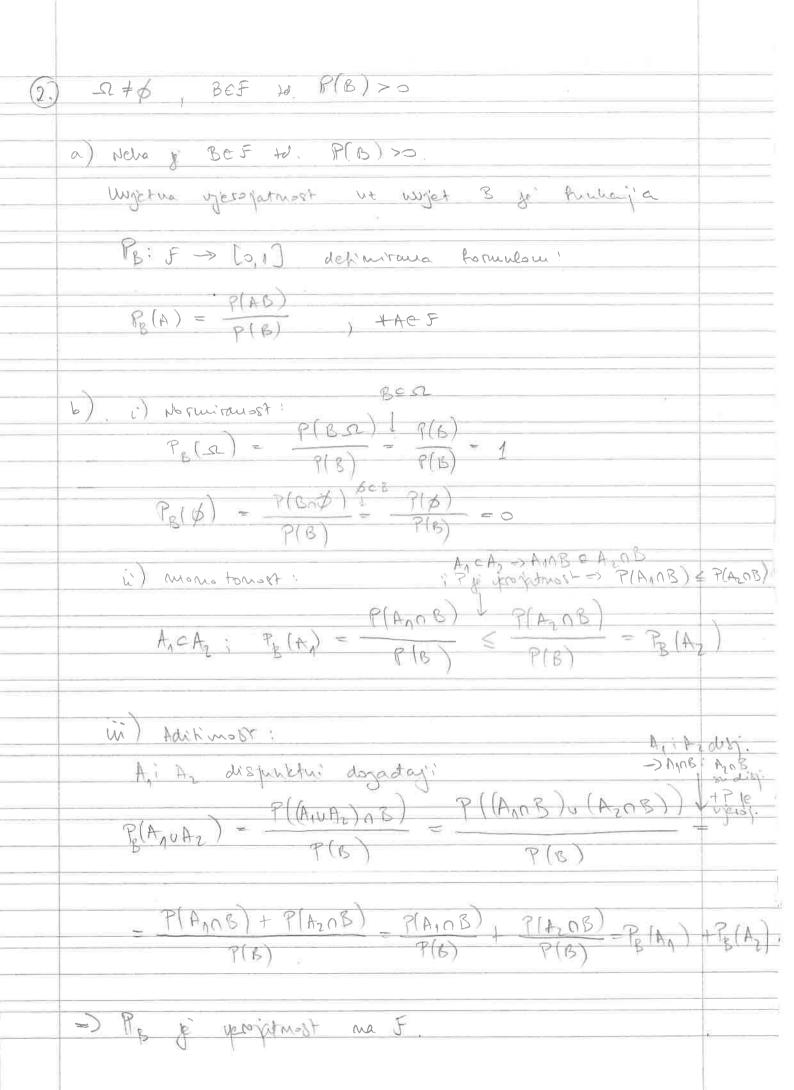
DERANSKI ROK, 15.9.2020. RJESENJA

$$\Rightarrow |A| = \left(\frac{14}{10}\right) = 1001$$

$$|A_{\Lambda}| = \left(\frac{14}{9}\right) \left(\frac{c}{1}\right) = \Rightarrow P(c) = \Lambda - P(\overline{c}) = 1 - \frac{|A_{10}A_{1}|}{|A_{1}|}$$



3. a) X dishretua ducagna varifabla, neho ji njen
talisa vardiose dan s:

X ~ (x1 x2 x3...
P1 P2 P3... Tada y E(X): = E X Pe b) X disk. 81. var. , Leir D: E(XX) = XE(X) E[dx]= 2 (dxx)Px = d2xxPx = d. E[x] c) 8 kugeica (1,2,3,...,8) X= 4 rec: iqueeni broj od dije na men in bugi." Labon vardiobe i P(X=1)=0, $P(X=2)=\frac{1}{8}\cdot\frac{1}{4}\cdot 2=\frac{1}{28}$, $P(X=3)=\frac{1}{8}\cdot\frac{2}{7}\cdot 2=\frac{2}{28}$ P(X=1)=0, $P(X=2)=\frac{1}{8}\cdot\frac{2}{7}\cdot 2=\frac{2}{28}$ $P(X=1)=\frac{1}{8}\cdot\frac{2}{7}\cdot 2=\frac{2}{28}$ $P(X=5)=\frac{1}{3}\cdot\frac{1}{7}\cdot 2=\frac{1}{28}$ $P(X=6)=\frac{1}{28}$ $P(X=7)=\frac{1}{28}$ $P(X=8)=\frac{1}{28}$ >E(X)= 2xip = 2. 1 + 3. 28 + ... + 8. ₹ = 6

a) Nota je dana Kutayura varjabla X: 52 -> 1R. (4.) Francija rardose 8. vos. X je francija F: 1R -> [0,1] definitare formoun: F(x) = P({ X 4 x 3) (gape je {X < x } = { WED : X (w) < x } Hehe & (Xn) parying wit realmin by wa to live xu z - 00; lim F(x) = Oquacimo Au = } X < Xu } > An m godagich stupon': = lim + (x) = lim P(An) = P(An) = P(\$) = 0 Holia de (x) to she mit with the xx = + 10° in) lim + (x) = Otnaeimo An = { X < xu } V-2+00 -> An on marine" surport. AJCAZC UAM = {XLm}=D = him F(xn) = him ?(An) = P(VAn) = P(IZ) = 1 > Postoje (i i kačuvati su) $\int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \int_{-\infty}^{\infty$ $F(+\infty) = 1 \Rightarrow D = 1$ F pë neprelimuta shjeve; umins toch x=2 $1 = F(2) = \lim_{\epsilon \to 0} F(2 - \epsilon) = \lim_{\epsilon \to 0} C(2 - \epsilon)^2 = C \cdot 2^2 = \frac{1}{2}$ =40 => c=== $\frac{1}{2}$ x xe(0,2) => EX= $\int x \cdot \frac{1}{2}$ x dx = $\frac{1}{2} \cdot \frac{x}{3}$ = $\frac{y}{3}$

(5)
$$X_{11}..., X_{11} \text{ seep. elegp. gl. vs.}; 6^{2} = 120$$
 $X_{11} = \frac{X_{1} + X_{11}}{A}$, seep. $X_{11} = \frac{X_{1} + X_{11}}{A}$, seep. $X_{11} = \frac{X_{1} + X_{11}}{A}$, seep. $X_{11} = \frac{X_{11} + X_{1$

6.
$$\mu = \int_{|x|}^{|x|} |x| = 4 \cdot |x|$$

$$\int_{|x|}^{|x|} |x| = \int_{|x|}^{|x|} |x| = \int_{|x|}$$

(c)
$$p = \frac{15}{4} = \frac{1}{1000} = 0.015 \dots p-postoria reciproval

a) 90%. $p.i.$, $w. ave = 0.05 = 1.64$, $w = 1000$
 $pa_{12} = \hat{p} + w_{1-2/2} \sqrt{2(a_{12})} = 0.015 \mp 0.006304$
 $\Rightarrow 30\%$ record parametri: $\left[0.008636, 0.021504\right]$

b) $x = 0.05$
 $t_{1}: p = 0.01$ (i.e. $p = 0.01$)

 $w_{1}: q > 0.01$
 $w_{1}: q > 0.0$$$

