2011-2012 END 204 ARA SINAVI GOZUMLERI

(P)(T)

Fi: Monitoron i. firmadan satin alinması i=1,23

. H: Satin alinan monitorun hatasız çıkmosı

P(Monitorin 2. veya 3. firmadan alinmis almosi | monitorin hotasiz almosi

$$= P(F_{2}|H) + P(F_{3}|H)$$

$$= 1 - P(F_{1}|H)$$

$$= 1 - \frac{P(F_{1}\cap H)}{P(H)} = 1 - \frac{P(F_{1}) \cdot P(H|F_{1})}{P(F_{1}) \cdot P(H|F_{1}) + P(F_{2}) \cdot P(H|F_{2}) + P(F_{3}) \cdot P(H|F_{3})}$$

+ 10 319 - 0144

$$= 1 - \frac{0.60(1-0.08)}{0.60(1-0.08)+0.25(1-0.05)+0.15(1-0.04)} = 1 - 0.5913 = 0.4087$$

a) x = 2, 3, 4, 5

örnek uzayın		f(2) = P(X=2) =
elemanlari	x	f(3) = P(x=3) =
(1,2)	2	
(1,3)	3	f(4) = P(x=4) =
(1,4)	4	2/4 (7)
(1,5)	5	f(5) = P(x=5) = -
(2,3)	3	
(2,4)	4 .	sonuc olorak,
(2,5)	5	χ 2 3
(3,4)	4	f(n) 1/10 2/10
(3.5)	5	7(2) 1/10 1/10

b)
$$F(x) = P(x \le x)$$

(4,5)

$$F(2) = P(X \le 2) = \frac{1}{10}$$

 $F(3) = P(X \le 3) = \frac{3}{10}$

$$F(4) = P(x \le 4) = \frac{5}{10}$$

$$\frac{2}{f(2)}$$
 $\frac{2}{1/0}$ $\frac{3}{1/0}$ $\frac{4}{1/0}$

$$F(x) = \begin{cases} 0, & x < 2 \text{ } \\ \frac{1}{10}, & 2 \le x < 3 \text{ } \\ \frac{3}{10}, & 3 \le x < 4 \text{ } \\ \frac{6}{10}, & 4 \le x < 5 \text{ } \\ 1, & x > 5 \text{ } \\ 1 \end{cases}$$