Jalanta, 15 APril 2024 STATPROB 3 A Tuthy STATPROBE-12 Dengan ini saya menyatakan bahwa PR ALDEL WITHFI Ini adalah hasil peterjaan saya sendin 2206628932 1) Gorengan (a) = 5 KuDapan (K) = 2 Makanan benat (M) = 3 Sample space = C6 - C7 = 231 (a) Tabel Px (x, y) Cara mendapathan P(x,y): x+y > 5 Ly x+y < 5-2 Px (x,y)= 231 231 50x3cy2c(5-x-y) otherwise 10 25 i) o karena jumlah yang dipilih hans 77 231 231 (0 20 100 10 • • • 77 ii) numus tombinasi K = G, 4 = M 231 231 77 30 Sisarya k 77 77 T  $\bigcirc \xi_x = F_x(x) , \xi_y = F_y(y)$ F(2,3) = Fx(0) + Fx(1) + Fx(2) torno © Pylix (1,3) = Px (3,1) = 20 = 2 Py (3) = 30 = 3

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E[X]: 
$$(.P(1) + 2P(2) + 3P(3) + 4P(4) + 5P_{3}(6) + 0P_{3}(6)$$
  
=  $\frac{2S}{231} + \frac{200}{77} + \frac{90}{77} + 0 = \frac{(85)}{77}$ 

$$cov(x,y) = \frac{40}{11} = \frac{185 \cdot 18}{11} = \frac{1}{11} \left( \frac{40 - 185 \cdot 18}{18} \right)$$

$$= \frac{1}{11} \left( \frac{40 - 3330}{11} \right) = \frac{1}{11} \left( \frac{40 - 4330}{11} \right)$$

$$= \frac{1}{11} \left( -3419 \right) = \frac{250}{11.77} \approx -0.255...$$

- 2) Independen

  (a) Jumlah Hodak diketahui

  X = Pelwang mendapatkan undian, X ~ Berlosa)

  P=0,12

  E[X]: P = 0,12
  - Varians = E[x2] E[x]2 = p(1-p) = 0,12. 0.88 = 0,1056
- (b) Binomial n=3  $x = \text{Fesutsesan satisfy membeli album semma-firs}, <math>x \sim \text{Bin}(3,0,12)$   $P(x \ge 1) = (-F(0) = (-300(0,12)^{2}(0,88)^{3})$ = 0.313
- © n=50 /x~ 811(50, 0,12) ECXJ = n.P = 50.0,12=6
- (d) Geometric, x ~ Geo(0,12)

  X = Benapa kall bel: album subelum subser

  P(x>161 x>12) = P(x>4) (memoryless Property) = 1-f(4) = (1-0,12)4 < 0,5036

(e) x = Bernpa kali beli album selbelum berhanil rata-rata > ECX] = 1/0,12 = 8,333 --(3 (a) n = 576 t = 10 ment = 1 heri d = 2 + = 4 x ~ Poi(4) P(x > 2) : 1-P(0) -P(1) 01 - e-440 - e-44 : 1-0,092 = 0,908 ( ) x = penupang check in dalam (minggl Nab Al'r y = ponumpany check in dalam Imagov evackain 6 = 7 harl bancx) = Varly) = & = 576.74 4032 x ~ Poi (4032) Y ~ Poi (4032) Variens of dany = Var(x) + Var(x) = 8064 @ t= 1 hani, asy X = check in 3 markspai dalem lo nenit x ~ Poi (4.3) = Poi (12) P(x7,2) = 1 - P(0) - P(1) = 1 - e-12.1 - e-12.1 - e-12.12 = 0,959 a) += 15 menst = 1/96 har → 0 = 576. 1/26 X = Jumlah penumpany check in dalam is men7 x ~ POY (6) P(X=15) = e-6615 = 0,00089 ~ 0,001

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- (e) \*\*\*\* A: 2 orang /ment > 2,5 ment /orang
  make penumpang selangutnya deck in 12.36.30

P(8 < x < 14) = F(14) + F(8) = e-3.6 - e-3.14 & 0,037

- (3) P(X>23 | X >18) = P(X>5) Memoryless Property =1-f(6) = e-3.5 = e-2.3 0,135
- 4 Uniform distribution
- @ Uni [0, 10] E[X] = 10+0 - 5km
- ( F(1,5) = 1,5 = 0,15
- © temung kinan bangun hattedi jalan tilak usat  $1-P(B(X(9,5))=1-\frac{1.5}{2}=0,85$