*P*rolabil*i* da li *s*e *statistica*

Enasoare Roxana - Adela

Gr*ey*e *an!* Exeratiul 1

Exam*eul -34.04.* 2*0*2*2*

a) P(X=-4, Y= 7) = 0.045

| -) *R* (X=-1) *P(Y-*41X=-1) = 0.045

0.18. Tf(Y=7 (X=-1) = 0.045 0.18. Pa = 0.045 G*) P*es 0.25

pi=t-p2=0.75

YNT

*1-45*

| 0.45

0.25

*0.615*

5

25

*0.*205

eX+Y ~( 26 s 08h 015 04 205)

| *P*(x- \* Y-4)= t*rở* .X-Y~ (0.135 0.0 0.0 0.205)

*• x2m l*ove her my p lease 95)

a *£[x]=61*).0,*1*8*+ 7.0.*82=5.5*6 . E 7=*6-55.0.75+7-*0*.25 =-2

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• Var (\*1 = *£[x27-Ex*J2 9*.4464*

• Var (Y) = 24

• Var (Hx-2y+8)= Voor (4x)+ Var (24) +Var (*)*

= 49 Var (x) + 4 Var (Y) = 570.8436

low (xiv)

s

Juar (x). Juarly

loo (Kirjao => $($420,

ate de finit

page

din Inea lui Jensen

Exercitiul a *1. E[*log WIJ $ lo*g* (*CLXI)*

tog este definit exposities)

lex)-concava Watan y dog x JE Ugan] a legfon 2. Æ {\*} > *&[x]*

\*zo*l***ette d*e pret* Nolane X-*EXI*SXztatizo**

r - couver pt Elx]>1. die juge luce Jensen =) *£*LY] > VELXJ!

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*3*. & *[*sic2 (\*)]+ *Æ[*6*03?X)] =* 1

*Æ*suz(x)}+El.Cos?*(*x)]*= €* S*c*u2(x) *+ 205*}(\**)]=E(43=1* 4. P(x >c) < EM

die unegalitateo chu e*ll*ar*t*ou *5. P*(X<Y) = P(xzy)

XHY, si nu aveu altă ung despre cele, dia' probabrletatea e ace*l*asi 6. PP (X+Y>1o) \* P(x>5 sau Y35)

Exista cazuri in care x>5 sau Yes,

dar x+8 nu e mai neare decat la *7. Æ{m*ii (Xi F)] ? muie (XI*, E [y]*

definede si de P(X), P(Y) 8. *€[#1* > PETI

en recent en les ==*E(S*) E PRETO E HI *EL*

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*9. E[x2(x*2+1)*]* ? Æ{x?[Y2+1]]

E[x2(x2+2)] = [X2]. E [x2+1] *[x?* (¥2+1)]=£{x?J*E [Y? +1]*

& [\*3*]* se redu*ce si raud*ue *de cocyarat* E[X2+1] m [Y2+1], dar nu stiu reeglio

diutre x s y dea ue le putem compara, 10. E*LÝ ?* ÉRT

*# [x=47 ? #113*-*4 "moure****ut* liretto** *di adiw* -"- *Wu sexistă*

Exercituil 3 a 25 XtY = 6

" Hi -tele fortul il este defect

P(x= 4, Y=s) = $ = K2á P(X=4, 8=2) = 2 . $. 1/3 = 1 1 2 2 2 2 2 P(x=4, Y-3) =

m = P(x=4, 7= 4) = 2 . 8 . 2 = 24 P(x=4, Y+5)= C = 22.

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Restul rezultatel*o*r: Crep couwc*e)* x | 0 1 2 3 4 5 4 | 5 4 3 3 วัน 2 0 4 2 2 2 0 3 | 0 1 0 5 2 0 0 0 *0* Rep แaguag :

-

9

- - -

R 0)

9 9

งs8 - -# #

- (

*- มว*

9 3

N (

9

9

/ 7ls

(*2*

**+ (0 + (2+ 12+ (5**

4) Ex]- 4 to t4212+ (5 - *21*

*&* EYE 6+ lotte 12tio = *-4*3*%*

1

9

4 6

2 S

)

*VA*N

()

4

*0*

4 6

25

2.

*( 0*

)

มาะ

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#X*27=* 6+ 20+36 +48+75 +880

[Y27= 6+20+36+48+50 761

21

21

Var(x) = *E(X*2*3 - E[x] = 1,99*

var (Y) = 1,95. ex.rl. Cow (X,Y)

i Juary) Vares *EX*Y = Exy TP(x=2, Yoy)

-1.0.0+*1*14.3 +0.2. + 1.3.66

**2**

...

=5

lou (X,Y)= 5–499. 4,95 = 4,12

$(KY) 142 \_

1999.1198) = 0,59

c) E [XlY=2] -

\*\Y=2 v centre

*ii*. 2

*3*

*4*

5

) -

1

2

3

4

5

1/

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*# {*XY=23= 6 + Şurat e +os = 2,0 Var (x1r2*)- E[[*xlr=z)?*] – Æ* {X/r=232

-ht 9+32

E (&?r=232) = *4*+h3432\_92 Var (X18=2) = 9,*2 – 4,84 = 1136* Exercituil u

fcxz čia e të 132303

*F*(29=S% FCAydf?> Fle*)-L FT)* olfe

x=0

F"(x)=y IF 2)x=f*ly*) - 1 e Re

y los = ln (9-x) y=1128 bu x) = 812 lutix)

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2) F-4 (*8) =8V 2 b*ulan F"*(*1) = 8 Valla *5, F\*438\*Va*lazi Var 8) = *E Cx27*-EA*TE A* KI = *$xfce)dx =6*\* d*iz*

SoCa) (e 'd*x* = -x \* *0 +Sie von de*r

***nco***

--xe

=-64764*.*880

2

T

3-6ht 512 v2 *E6823=L*\*\**f6*=52x4*-le at your* =-62. e. *10°* +6*6(+) Ce of y'd*

**2**

*= 64.61*

*e*

*lo*

p. *1271*

= 64. (1) Teleo + 64. he had =-642 +6428. 127

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Var (8)= - 69?+ 64?. 8. VT + 62 - 6h 8 Ver +

+ 2.862. 8.125 Var(x)= -2.642 + Pau *(648-51242*.642.8*)*

*arike*ta

Inloc*ui*r*u* se calculä*ru r*aportul *de*

Exerceituals N-ne alegatorilor, N ~ Pois (306)

906 = 1 X - alegătorii caru wotejă *O*bau Yalçatori care votează citu

p-probabilitatea ca um aleg sa velge citu a)P(x=x; Y<j)= P(x=XIT*=j I*N=*c+) PNa*in) P(x=i= Y- *j}}=*ty') = R (X=2 IN*«cujt a*tajiri *P*(x=ciraj) = (:1pico-prera

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*J!*

EMP Capgr. e-al-p? alumpur 721906.0.68(906-0.60)' .906.036 906.10.2009

Rep marginale:

Pexec) - 757 (r*ec, raj)*

Pap". f« H*p? a*cup". e -) Xw Pois (2p) e) Xn Por's (90*6.0,64)* ctualgo en Pois (A(1-P))=) YN Pois (506 0.267 My P/x=ci Y=j)= P(x=c*)f(y=j) 3*) \*l*y* c) *EW] = 2 =* 906

Var (u) =2=906

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Exercifui*l 6*

X

-nr de succese

Trainte de al 4.bea esec

P(X= k) = (2-1). 4-p) te pt ,kah

E (X)= 0.334 *= 4197*

0.67

*E*[15x-1*)*= 15.1,94 – 9=2*0,*55 Var (8) = 026753 Var (2X+7) = h Var(x1=4:3=12

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