The Peter - Ceistian Geyn 233

Jema 2

[X-1] a) $](cxap la a prinder) = \frac{3}{10}$ I (ceilalti 3 perti sa nu fie crayi) = \$ 30.5 = 30 = 15 = 2 12 => P (ca la 4 asunciai, fin unul sa fil crap)= = P(A)= 3 · 12 = 15 = 5 = 1 b)] (fin 1 (hay) = 1] (2 chaji) = 3.2.2.2. = 36 = 1] (3 Chayi) = 3. 2. 1. 1/2 = 6 = 1/20 P (4 chapi) = 0 (me sunt decât 3 chapi) = $\mathcal{J}(B) = \frac{1}{8} + \frac{1}{20} + \frac{1}{120} = \frac{15}{120} + \frac{6}{120} + \frac{1}{120} = \frac{22}{120} = \frac{11}{120}$ c) I (primul pente este clay) = \frac{3}{10} (la inceput sunt 3 chaji

" 10 penti in total)

of)
$$3$$
 (pinul coop, al doiler clap) = $\frac{3}{10} \cdot \frac{2}{9} = \frac{6}{90} = \frac{2}{30} = \frac{1}{15}$
 1 (pinul coros, al doiler clap) = $\frac{7}{10} \cdot \frac{3}{9} = \frac{6}{90} = \frac{2}{30} = \frac{1}{15}$
 1 (pinul coros, al doiler clap) = $\frac{7}{10} \cdot \frac{3}{9} = \frac{21}{30} = \frac{7}{30}$
 1 (pinul crops) = $\frac{3}{10} \cdot \frac{7}{9} = \frac{21}{90} = \frac{7}{30}$ (al douber coros)

 1 (prinul coros, al doiler claps) = $\frac{7}{10} \cdot \frac{3}{9} = \frac{7}{10}$
 1 (prinul coros, al doiler claps) = $\frac{7}{10} \cdot \frac{3}{3} = \frac{7}{10}$
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Jeinel parte to est 1 - s lamortain 3/ sunt concator your second y

Labe 1-10 arbresia, k, c + X

Man 210 contract forther forth

X = 1 =) Q = 2 => le = 3 => C = 4-10 7 Canneri

le = 4 => C = 5-10

6 canui

liz10 => Cz - => 0 Casmi a = 3 => lez 4 => Cz 5 - 10

a z 4
:
a z 8 = 1 la z 9 = 1 C z 10
a z 9 = 1 a z 10 = 1

 $=) \times 21 =) \frac{7.8}{2} + \frac{6.7}{2} + \frac{5.6}{2} + \frac{45}{2} + \frac{3.4}{2} + \frac{2.3}{2} + 12$

= 28+21+15+10+6+3+1= 49+15+20= 84

De.
$$x=2$$
 = Jot 84 canoni

 $x=3$ -11-

 $x=10=3$ Jot 84 canoni

=) Canoni farografiale = 10.84 = 840

Canoni fosiliale = $\frac{840}{504}$ = $\frac{84}{257}$
 $Ex2$ | $x \mid y \mid 1$ = $\frac{840}{504}$ = $\frac{84}{257}$
 $Ex2$ | $x \mid y \mid 1$ = $\frac{3}{1}$ | $\frac{42}{257}$
 $Ex2$ | $x \mid y \mid 1$ = $\frac{3}{1}$ | $\frac{90}{22}$ = $\frac{91}{2}$ = $\frac{91}{2}$

Var
$$(x) = E(x^2) - (E(x))^2 z$$

$$= (0.35 + 1.80 + 1.20) - (1.85)^2 z$$

$$= 0.53$$
Var $(4) = (0.48 + 4.033 + 9.0.19) - (1.74)^2 z$

$$= 3.51 - 2.92 = 0.59$$
C) Cov $(x,y) = \sum_{i,j} p(x_i,y_j)(x_i-1)(y_j-1) = 0.00$

$$= 0 + 0 + 0 + 0 + (9.15)(1)(1) + (9.9.7)(1)(2) + 0.00$$

$$= 0.15 + 0.2 + 0.02 + 0.00 + 0.00$$

$$= 0.35 + 0.21 = 0.21 = 0.21 = 0.21 = 0.21 = 0.21 = 0.21 = 0.21 = 0.21 = 0.21 = 0.21 = 0.21 = 0.21 = 0.21 = 0.21 = 0.21 = 0.21 = 0.21 = 0.21 = 0.2$$

$$P(x < 28) = \overline{D}(28^{-m}) = 0,94$$

$$\overline{D}(1,56) = 0,94$$

$$= 0,14 = 0$$

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$$\int_{0}^{\infty} \frac{1}{f(x)} = \int_{0}^{-\infty} \frac{(kx(kx+2)+2) \cdot l^{+\infty}}{k^{3}}, \quad x \ge 0$$

$$\int_{0}^{\infty} \frac{1}{f(x)} = \frac{1}{f(x)} + \frac{1}{f(x)} + \frac{1}{f(x)} = \frac{1}{f(x)}$$

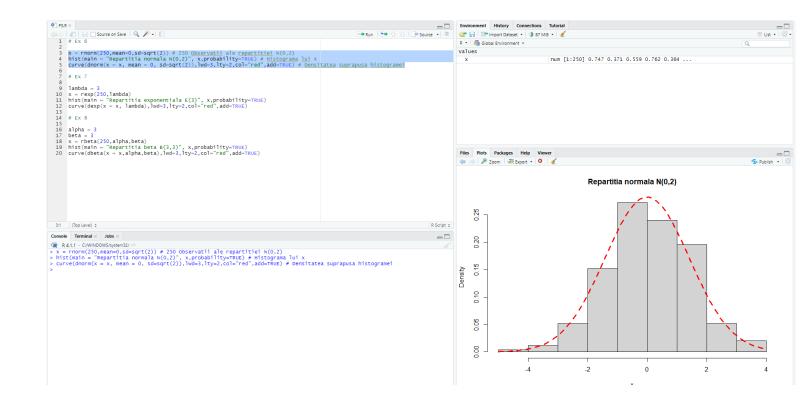
$$\frac{1}{f(x)} = \frac{1}{f(x)} + \frac{1}{f(x)} + \frac{1}{f(x)}$$

$$\frac{1}{f(x)} = \frac{1}{f(x)} + \frac{1}{f(x)}$$

$$\frac{1}{f(x)} = \frac{1}$$

Ex 6:

 $x = rnorm(250,mean=0,sd=sqrt(2)) \ \# \ 250 \ Observatii \ ale \ repartitiei \ N(0,2)$ $hist(main="Repartitia \ normala \ N(0,2)", \ x,probability=TRUE) \ \# \ Histograma \ lui \ x$ $curve(dnorm(x=x, mean=0, sd=sqrt(2)),lwd=3,lty=2,col="red",add=TRUE) \ \#$ $Densitatea \ suprapusa \ histogramei$



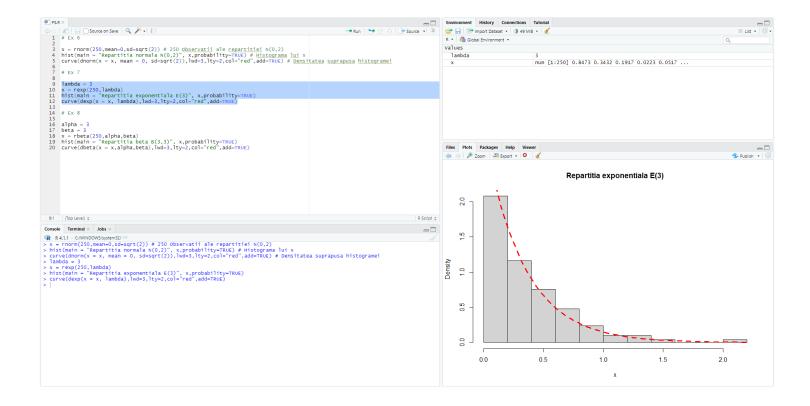
Ex 7:

lambda = 3

x = rexp(250, lambda)

hist(main = "Repartitia exponentiala E(3)", x,probability=TRUE)

curve(dexp(x = x, lambda),lwd=3,lty=2,col="red",add=TRUE)



```
Ex 8:

alpha = 3

beta = 3

x = rbeta(250,alpha,beta)

hist(main = "Repartitia beta B(3,3)", x,probability=TRUE)

curve(dbeta(x = x,alpha,beta),lwd=3,lty=2,col="red",add=TRUE)
```

