## Doymenne parapegenema

Cuyrou DCB

Typino 6 ply, onbund UM Abd. Ucculgywomed DCB 3 42.

3: 1, 1, 1, ...; 1h

n: y1; y2; ..., ym

Degueption zanoriam poecopellerous CB & u 7 rs. bezo-Sem., omplglielsende tea sett. been ynopsgorlander nop  $(x_i, y_i)$ , j = 1, ..., m

Depu. 3-4 polaply willen beig Celly.

	, ,			
37	41	Y2 }	\{\frac{y}{m}\}	
21	P11	P12 }	3 Pim	123
$\mathcal{L}_{2}$	P21	P22	Pem	P3
T.	Pl1	Ph2	E Phm	PE
	pr	$\rho z$	{pr	

1) 
$$p_{ij} = P(3 = \chi_i, \eta = y_i)$$

2) Eau Zagan 2-reporte z-H, mo Cynnypobarulu no capo-Ran Um Romorican reoncoro nenyrumo 1-12 z-mr gula 542.

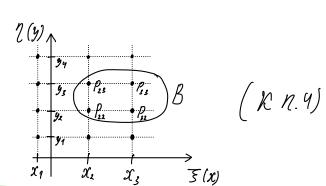
M	$\mathcal{L}_{1}$	$\left  \chi_{2} \right. \left\{ \left\{ \chi_{\ell} \right\} \right.$
P	P1	$p_2^{\mathfrak{F}}$

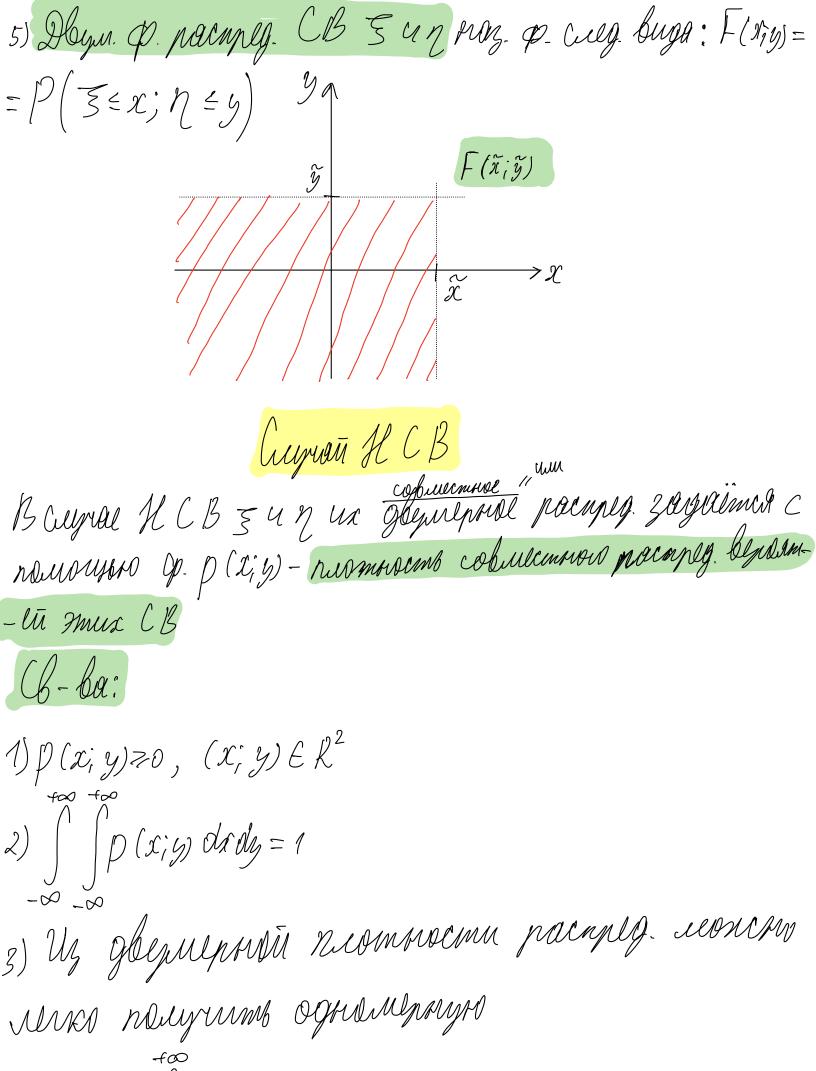
2	91	y <sub>2</sub> {	$\begin{cases} y_m \end{cases}$
P	P1	$p_2^2$	{ Pm

Deprement 5- Her, bother current, rel bocconstrabilibaron ogrozourres objulgmens 5-4a, m.r. h.m-kon-bo recuberations
b-m-kon-bo ynabrilania

$$3) \sum_{i=1}^{k} \sum_{j=1}^{m} p_{ij} = 1$$

4) 
$$P((3; n) \in B) = \sum_{(x_i, y_i) \in B} p_{ij}$$





$$P_{\mathcal{Z}}(x) = \int p(x;y) dy$$

$$P_{\mathcal{Z}}(y) = \int p(x;y) dx$$

$$P_{\mathcal{Z}}(y) = \int p(x;y) dx$$

Boowen Cuyral, agrilularian nuom. He baccman. agrazriaria

4) 
$$P((3; \eta) \in B) = \int \int p(x; y) dx dy$$

5) Doyn. Op. purples. CB  $\leq u \eta$  unelm cueg. bug:  $F(x;y) = P(\xi \leq x; \eta \leq y);$   $(x;y) \in \mathbb{R}^2. \quad F(x;y) = \int_{-\infty}^{\infty} P(s;t) \, ds \, dt$ 

## Hyaburumound CB

DCB z u n roz rez., lam za-mor gbyndanou z-na pabour nocuz. coombensembyrougus za-mob ognonelprovou z-ria.

$$Dij = P_i^{5} \cdot P_i^{7}; j = 1; ...; m$$

HCB 3 un Hoy. Hbz., law numerous glyn. pacaply. Wellow Cilly.

Comparamony: 
$$P(x;y) = P_{\xi}(x) \cdot P_{\eta}(y)$$

## Oneyayun ray CB

Bam.

Ecreu Tygym benjeramous cobnaganocycle Cquino Zhartruis (5,2), mo coomb. Konorien Ovolgunimus b Ogry, a benoam.

Caugubanand.
$$C_{5} = 4(3; 7)$$

G	$f(x_1;y_1)$	$f(x_1; y_2)$	}	$\int d(x_k; y_m)$
P	1211	P12	} …	Phin

2) Cuyrain HCB

30g. O cynnel 2-yn Mez. pabridmep. paconneg. CB

$$3:P_{3}(x);$$
 $1:P_{2}(y);$ 
 $S=3+2$ 

$$P(\alpha = C_{S} \leq b) = \int_{C_{S}} f(t) dt = \int_{C_{S}} \rho(x;y) dxdy = \int_{C_{S}} dx \int_{C_{S}} \rho(x;y) dy = \int_{C_{S}} dx \int_{C_{S}} \rho(x;y) dx = \int_{C_{S}} \rho(x;$$

$$P(x;y) = P_{3}(x) \cdot P_{1}(y); P_{3}(x) = \begin{cases} 1; 0 \le x \le 1 \\ 0; x \ge 0; x > 1 \end{cases}$$

$$P_{1}(y) = \begin{cases} 1; 0 \le y \le 1 \\ 0; x \ge 0; x > 1 \end{cases}$$

Cyuma 2-ye nopurantours pacapeg. He Iba. teopurant. pacapeg

Zoll.

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