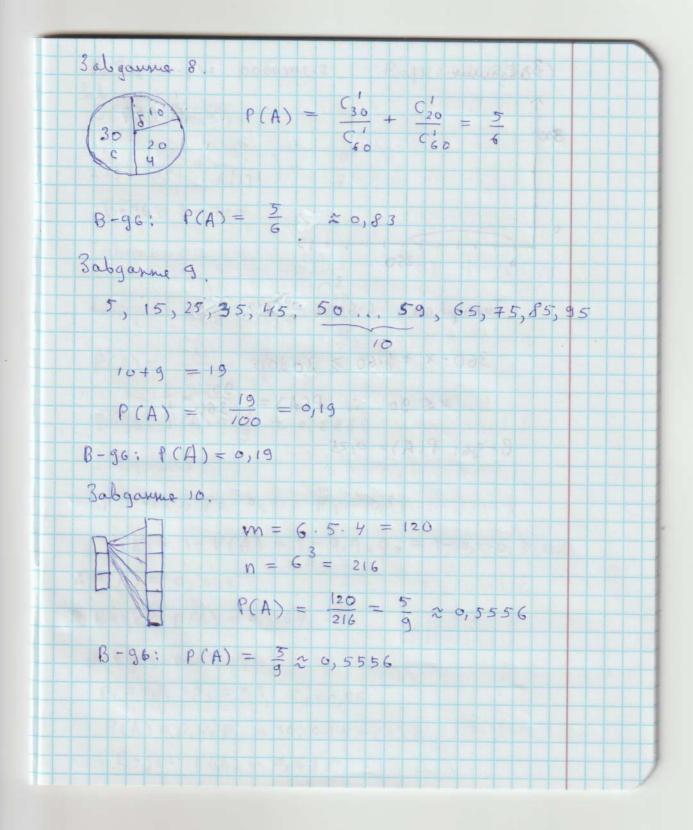
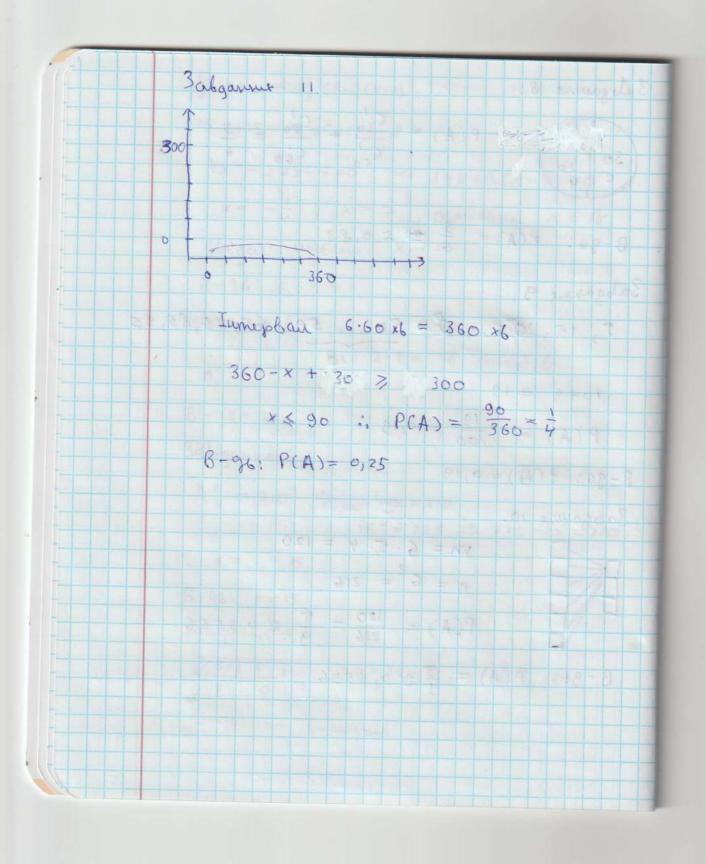
Balganne 1.			
Bignobigo: 12!	CM2C2C2CA2		
Didwoorde: 15.	CVV3 CS CS COCCA	-275-	NA A
3abganne 2.			
10.9.8.7.6 =	30240		M
10.9.0.7.6 -	4 = X 01	SAME AS	4.5
B-6: 302400			
	3 3		0-8
Sabganne 3.			045000000000000000000000000000000000000
K1-(K-1)!	1		
$\frac{\kappa! - (\kappa - i)!}{(\kappa + i)!} =$	6 )	>1, K €	
			0
K(K-1)! -(K-1	)! ! .	W-1 _	1-8
K(K-1)! -(K-1) K(K+1)(K)	01 6	K(K+1)	6
			contract the second
6 K - 6 = K (K+1)	=> 6 N - (	0 = N + K	
K2-5K+6=0	$\Rightarrow k^2 - 2k - 3$	K+6 = 0	
	3 2 4 5 5 4		
K(K-2)-3(K-	$(2) = 0 \rightarrow ($	N-3)(N-2	) ~6
K = {2;3}	8-96:	2;3	
			129-3
3abgarne 4.			- Table   1
C 2			
$\frac{C_{x+1}}{C_x^3} = \frac{4}{5} =$	⇒ 5 C 2	= 4(3)	X 7,0, XE
C 3 5	- ×+1	X	9
$5 - \frac{(x+1)!}{2!(x-1)!} = 4 - \frac{1}{(x+1)!}$	x!	001	2
5	21/21 => 5	-(x+1)x =	$\frac{1}{3} \times (x-1)(x-2)$

15 $x+15 = 4 \times^2 - 12x + 8$ $4x^2 - 27x - 4 = 0 \implies (4x+1)(x-7) = 0$ $x = -\frac{1}{7}$ , $x = 7$ , occiron $x \in N$ 3bigar was $x = 7$ . $x = -\frac{1}{7}$ , $x = 7$ , occiron $x \in N$ 3abgaine 5.  1. If $x = 1$ 3. $x = 1$ 3. $x = 1$ 3. $x = 1$ 4. $x = 1$ 4. $x = 1$ 4. $x = 1$ 5. $x = 1$ 6. $x = 1$ 6. $x = 1$ 6. $x = 1$ 6. $x = 1$ 7. $x = 1$ 8. $x = 1$ 9. $x = 1$ 8. $x = 1$ 9. $x =$		$\frac{5}{2}(x+1) = \frac{2}{3}(x-1)(x-2)$
13 $x+15 = 4x - 12x + 8$ $4x^2 - 27x - 4 = 0 \implies (4x + 1)(x - 7) = 0$ $x = -\frac{1}{4}$ , $x = 7$ , ocwithen $x \in \mathbb{N}$ 36 igai was use $x = 7$ . $x = -\frac{1}{4}$ , $x = 7$ , ocwithen $x \in \mathbb{N}$ $x = -\frac{1}{4}$ , $x $		
$4x^{2}-27x-4=0$ $\Rightarrow$ $(4x+1)(x-7)=0$ $x=-\frac{1}{4}$ , $x=7$ , ocnithra $x \in \mathbb{N}$ 3bigar was use $x=7$ .		$15 \times +15 = 4 \times^2 - 12 \times +8$
$x = -\frac{1}{4}$ , $x = 7$ , ochingue $x \in N$ 36 igae was $x = 7$ . $8 - 96: 7$ 3abganne 5. $1 \cdot 1 \cdot 1 \cdot 1$ $3 \cdot 3 \cdot 2 \cdot 1 = 18$ chocosi's $0_x$ $8 - 96: 18$ 3abganne 6. $A_x^2 = 210 \Rightarrow x^2 + x = 210$ $15^2 = 225 \Rightarrow 225 - 15 = 210$ $x = 15$		State of the state
36 igan was $x = 7$ .  B-36 i 7.  3abganus 5.  5.  3-36: 18  3abganus 6. $A_{x}^{2} = 210 \Rightarrow x^{2} = x = 210$ 15 $x = 225 \Rightarrow 225 - 15 = 210$ i. $x = 15$ 3abganus 7.  20 + 3P $\Rightarrow C_{5}^{2}C_{5}^{3} = 100$ P 0  B-96: 100 Gunagxib.		$4x^2 - 27x - 7 = 0 \implies (4x + 1)(x - 7) = 0$
36 igan was $x = 7$ .  B-36 i 7.  3abganus 5.  5.  3-36: 18  3abganus 6. $A_{x}^{2} = 210 \Rightarrow x^{2} = x = 210$ 15 $x = 225 \Rightarrow 225 - 15 = 210$ i. $x = 15$ 3abganus 7.  20 + 3P $\Rightarrow C_{5}^{2}C_{5}^{3} = 100$ P 0  B-96: 100 Gunagxib.		
$B-36: 7$ .  3abganne 5. $C = 15$ $B-36: 18$ 3abganne 6. $A^{2} = 210 \implies x^{2} = x = 210$ $15^{2} = 225 \implies 225 - 15 = 210$ $A = 15$		X= -4, X-+, Ocharbina X EIV
$B-36: 7$ .  3abganne 5. $C = 15$ $B-36: 18$ 3abganne 6. $A^{2} = 210 \implies x^{2} = x = 210$ $15^{2} = 225 \implies 225 - 15 = 210$ $A = 15$		26 acus was x = 7.
3abganne 5.  3.3.2.1 = 18 cnocosib  0x  8-96: 18  3abganne 6. $A^{2}_{x} = 210 \implies x^{2}_{x} = 210$ $15^{2} = 225 \implies 225 - 15 = 210$ i. $x = 15$ 3abganne 7.  20+3P $\implies$ $C_{5}^{2}$ $C_{5}^{3}$ = 100  P 0  B-96: 100 bunagxib		24 - 5 - 34 2 - 34 2 - 34 4 M C
3abganne 5.  [1] 3.3.2.1 = 18 cnocosib  0,  8-96: 18  3abganne 6. $A_{\chi}^{2} = 210 \Rightarrow \chi^{2} + \chi = 210$ $15^{2} = 225 \Rightarrow 225 - 15 = 210$ i. $\chi = 15$ 3abganne 7.  20+3P $\Rightarrow$ $C_{5}^{2}C_{5}^{3} = 100$ B-96: 100 bunaquib		8-36: 7
3.3.2.1 = 18 cnocodib 0x  B-96: 18  3abganna 6. $A_{x}^{2} = 210 \implies x^{2} = x = 210$ $15^{2} = 225 \implies 225 - 15 = 210$ i. $x = 15$ B-96: $x = 15$ 3abganna 7.  20+3P $\Rightarrow$ $C_{5}^{2}C_{5}^{3} = 100$ B-96: 100 bunaquib		
$0_{x}$ $8-96: 18$ $3abgaune 6.$ $A_{x}^{2} = 210 \Rightarrow x^{2} = x = 210$ $15^{2} = 225 \Rightarrow 225 - 15 = 210$ $x = 15$		
B-96: 18  3abganne 6. $A_{x}^{2} = 210 \implies x^{2} + x = 210$ $15^{2} = 225 \implies 225 - 15 = 210$ i. $x = 15$ B-96: $x = 15$ 3abganne 7.  20+3P $\Rightarrow$ $C_{5}^{2}C_{5}^{3} = 100$ P 0  B-96: 100 Gunagrib.		3.3.2.1 = 18 cnocodil
3abganne 6. $A_{\chi}^{2} = 210 \implies \chi^{2} = \chi = 210$ $15^{2} = 225 \implies 225 - 15 = 210$ $X = 15$ $15^{2} = 225 \implies 225 - 15 = 210$		O <sub>×</sub>
3abganne 6.  A <sup>2</sup> = 210 $\Rightarrow$ $x^2 + x = 210$ 15 <sup>2</sup> = 225 $\Rightarrow$ 225-15 = 210  1, $x = 15$ 8-96: $x = 15$ 3abganne 7.  20+3P $\Rightarrow$ C <sup>2</sup> C <sup>3</sup> = 100  P 0  B-96: 100 Gunagrib		0 004 18 19 19 19 19 19 19 19 19 19 19 19 19 19
$A_{x}^{2} = 210 \implies x^{2} - x = 210$ $15^{2} = 225 \implies 225 - 15 = 210$ $B - 96: x = 15$ $3abganne 7.$ $20 + 3P \implies C_{5}^{2}C_{5}^{3} = 100$ $P = 0$ $B - 96: 100 \text{ bunagalb}$		
$A_{x}^{2} = 210 \implies x^{2} - x = 210$ $15^{2} = 225 \implies 225 - 15 = 210$ $R - 96: x = 15$ $3abgannu \neq .$ $20 + 3P \implies C_{5}^{2}C_{5}^{3} = 100$ $R - 96: 100 \text{ bunagalb}$		3abganne 6.
$15^{2} = 225 \implies 225 - 15 = 210$ $3abgannu 7.$ $3abgannu 7.$ $20 + 3P \implies C_{5}^{2}C_{5}^{3} = 100$ $P = 0$ $B-96: 100 \text{ bunagrab}$		
$15^{2} = 225 \implies 225 - 15 = 210$ $3abgannu 7.$ $3abgannu 7.$ $20 + 3P \implies C_{5}^{2}C_{5}^{3} = 100$ $P = 0$ $B-96: 100 \ bunagrab$		$A_{x}^{2} = 210 \implies x^{2} + x = 210$
3abgannu 7.  3abgannu 7.  20+3P $\Rightarrow$ C2C3 = 100  B-96: 100 bunagrub		152-125 - 225-15=210
$B-96: x=15$ 3abgann, 7.  20+3P $\Rightarrow C_5^2C_5^3 = 100$ P 0 $B-96: 100$ bunaguib		
B-96: $x = 15$ 3abgannu 7.  20+3P $\Rightarrow$ $C_5^2$ $C_5^3$ = 100  B-96: 100 bunaquib		. X = 15
3abgannu 7.  20+3P $\Rightarrow$ C <sup>2</sup> C <sup>3</sup> = 100  P 0  B-96: 100 bunagrub		
8-96:100 bunagrub		The state of the s
$9 \circ 0$ B-96: 100 bunagrub		3abgann 7.
B-96: 100 bunagrub		
B-96: 100 bunagrib	No.	
		13-96: 100 bunagrib
		THE PART LANGE OF STREET





Aasopamophe posome 2 Bapiasim 23(3)  Sabgame 1.  Osinaciumi i $\frac{1}{23!} \left( \frac{28!}{18!} + \frac{19!}{6!13!} \right) - \frac{10!}{7!}$ B-96: 2-720  3abgama 2. $\frac{40}{18} P(A) = \frac{C_{40}^8}{C_{44}^8}$ $P(A) = \frac{C_{32}^3}{C_{36}^3} = \frac{32}{9} = \frac{8}{9}$ B-96: $P(A) = \frac{3}{9} \approx 0,8889$ 3abgama 3. $P_1 = 0,9$ , $P_2 = 0,7$ , $P_3 = 0,8$ $P(A) = 1 - P(A) = 1 - 9,929 = 1 - 0,1.0,3.0,2$ $P(A) = 0,994$ B-96: $P(A) = 0,994$	A C control and to the	20 60 100 0	2		2 0 1 0	. 0		2	3 (	• >	\	Ŧ	П	1
Obtaculary: $\frac{1}{23!} \left( \begin{array}{c} 28! \\ 18! \\ 6!13! \end{array} \right)$ $\frac{1}{7!}$ $\frac{1}{8} - 96: 2 - 720$ 3abgarne 2. $\frac{1}{40} = \frac{1}{41}$ $\frac{1}{6!13!}$ $\frac{1}{7!}$ $\frac{1}{7!}$ $\frac{1}{8} - 96: 2 - 720$ $\frac{1}{32} = \frac{32}{36} = \frac{8}{9}$ $\frac{1}{6!13!}$ $\frac{1}{7!}$ $\frac$		3003 111	_		sap		LUTT							$\blacksquare$
B-96: $\alpha$ -720  3abgarne 2. $40$ M P(A) = $\frac{C_{40}^{8}}{C_{44}^{8}}$ $P(A) = \frac{C_{32}^{1}}{C_{36}^{1}} = \frac{32}{36} = \frac{8}{9}$ $B-96: P(A) = \frac{8}{9} \approx 0,8889$ 3abgarne 3. $P_{1}=0,9, P_{2}=0,7, P_{3}=0,8$ $P(A) = 1-P(A) = 1-9,9293 = 1-0,100,3.0,22$ $P(A) = 0,994$	Oducumi:													
B-96: $\approx -720$ 3abganne 2. $40 \text{ M}$ $P(A) = \frac{C_{80}^{8}}{C_{44}^{8}}$ $P(A) = \frac{C_{32}^{3}}{C_{36}^{3}} = \frac{32}{9} = \frac{8}{9}$ $B-96: P(A) = \frac{\delta}{9} \approx 0,8889$ 3abganne 3. $P_{1}=0,9, P_{2}=0,7, P_{3}=0,8$ $P(A) = 1-P(A) = 1-9,9293 = 1-0,100,3.0,22$ $P(A) = 0,994$	1 ( 28! , 19	! \	10								1			
3abganne 2.  P(A) = $\frac{C_{40}^3}{C_{36}^3} = \frac{32}{36} = \frac{8}{9}$ B-96: $P(A) = \frac{\delta}{9} \approx 0,8889$ 3abganne 3. $P_1 = 0,9$ , $P_2 = 0,7$ , $P_3 = 0,8$ $P(A) = 1 - P(\bar{A}) = 1 - 9,9293 = 1 - 0,1.0,3.0,2$ $P(A) = 0,994$	23! 18! 6!!	3	7			14					H			+
$P(A) = \frac{C_{40}^{8}}{C_{44}^{8}}$ $P(A) = \frac{C_{32}^{1}}{C_{36}^{1}} = \frac{32}{36} = \frac{8}{9}$ $B-96: P(A) = \frac{6}{9} \approx 0,8889$ $3abganne3.$ $P_{1}=0,9, P_{2}=0,7, P_{3}=0,8$ $P(A) = 1-P(A) = 1-9.9293 = 1-0,1.0,3.0,2$ $P(A) = 0,994$	8-96: 2-720	120												
$P(A) = \frac{C_{40}^{8}}{C_{44}^{8}}$ $P(A) = \frac{C_{32}^{1}}{C_{36}^{1}} = \frac{32}{36} = \frac{8}{9}$ $B-96: P(A) = \frac{6}{9} \approx 0,8889$ $3abganne3.$ $P_{1}=0,9, P_{2}=0,7, P_{3}=0,8$ $P(A) = 1-P(A) = 1-9.9293 = 1-0,1.0,3.0,2$ $P(A) = 0,994$	3abgarne 2		01				- (							
$P(A) = \frac{C_{32}}{C_{36}} = \frac{32}{36} = \frac{8}{9}$ $B-96: P(A) = \frac{8}{9} \approx 0,8889$ $3abganne3.$ $P_{1}=0,9, P_{2}=0,7, P_{3}=0,8$ $P(A) = 1 - P(A) = 1 - 9,9293 = 1 - 0,1 \cdot 0,3 \cdot 0,2$ $P(A) = 0,994$			08											
$P(A) = \frac{C_{32}}{C_{36}} = \frac{32}{36} = \frac{8}{9}$ $B-96: P(A) = \frac{8}{9} \approx 0,8889$ $3abganne3.$ $P_{1}=0,9, P_{2}=0,7, P_{3}=0,8$ $P(A) = 1-P(A) = 1-9,9293 = 1-0,1.0,3.0,2$ $P(A) = 0,994$	40 M PC	= (A)	<del>40</del>											-
B-96: $P(A) = \frac{8}{9} \approx 0,8889$ 3abganne3. $P_1 = 0,9, P_2 = 0,7, P_3 = 0,8$ $P(A) = 1 - P(\overline{A}) = 1 - 9,9293 = 1 - 0,1.0,3.0,2$ $P(A) = 0,994$	× C32	30	8 44	0 -										
B-96: $P(A) = \frac{8}{9} \approx 0,8889$ 3abganne3. $P_1 = 0,9, P_2 = 0,7, P_3 = 0,8$ $P(A) = 1 - P(\overline{A}) = 1 - 9,9293 = 1 - 0,1.0,3.0,2$ $P(A) = 0,994$	$P(A) = \frac{3}{C_{3}} =$	36 = 3	9											
3abganne3. $P_1=0,9$ , $P_2=0,7$ , $P_3=0,8$ $P(A)=1-P(\overline{A})=1-9,929_3=1-0,1.0,3.0,2$ P(A)=0,994				0.0										
$P_1 = 0.9$ , $P_2 = 0.7$ , $P_3 = 0.8$ $P(A) = 1 - P(\overline{A}) = 1 - 9.929_3 = 1 - 0.1.0, 3.0.2$ P(A) = 0.994		9 20	3 0 0	5 9										
$P(A) = 1 - P(\overline{A}) = 1 - 9.929_3 = 1 - 0.1.0, 3.0,2$ P(A) = 0.994	Jabganne 3.							9-						
P(A) = 0,994	P1=0,9 , P2=	0,73	p 3	= 0,	8									
P(A) = 0,994	P(A) = 1 - P(A)	$\widehat{A} = 1$	- 9,	920	73=	= 1	- 0,	1.	0,	3	0,5	2		
												81		
13-96, P(A) = 0, 394		. 9.4.1						1						
	13-961 P(A) =	= 0, 394												
3abgarne 4	3abgarne 4													
$P_1 = 0.8, P_2 = 0.9, P_3 = 0.95$	P, = 0,8, P2 =	0,9, p	3=0,	95				117						
$P(A) = P_1 P_2 P_3 = 0,684$	$P(A) = P_1 P_2 P_1$	3 = 0,	681	1			115							
B-96: P(A) = 0,684	B-96: PCA	) = 0,6	584											

3 abganne 5 2 BA : 0,9 10 4 13 A TC : 0,5 5 D AG 10,8  $P(A) = \frac{1}{5} \cdot 0,9 + \frac{3}{10} \cdot 0,5 + \frac{1}{2} \cdot 0,8 = 0,73$ 2) a)  $P_{BA}(B) = \frac{1}{5} \cdot 0.9 = \frac{18}{73} \cdot 20.2466$ 8)  $P_{nc}(B) = \frac{3}{10} \cdot 0, 5 = \frac{15}{73} \approx 0,2655$ B g6: 1) P(A) = 0,732) (a) 0,2466 (b) 0,2055 3abgarine 6. P, =0,7 , P2 =0,8 P(A) = 1-P(A) = 1-9,92=1-0,3.0,2=0,94 B-96: 0,94 Balgaring 7.  $\frac{92}{x} = \frac{100}{84} \implies x = 77, 28$ : 9200-7728+800= P(A) = 9,7728 = 2272 i mui gemani B-96: P(A) = 0,7728

3abganna 8. P(A) = 0,3+0,6 = 0,9 B-96: P(A) = 0,9 3abgarne 10. \* 95 0,95.0,97 =0,9215 B-96: P(A) = 0,9215 3 abganne 5. T : 0,7  $P_1 - P_2 = 0,01$   $P_3 = P_4 = P_5 = 0.05$ P(A) = 1-P(A) = 1-9, 93 =)  $P(A_2) = 1 - P(\bar{A}_2) = 1 - P_1^2 P_3^3 = )$  $P(A) = \frac{1}{3} (0, 7(1-0,010,05^3) + 0,3(1-0,99^20,95^3) +$ + 0,7(1-0,9920,953) + 0,3(1-0,0120,053) +1-0,9920,953) P(A) 2 0,4398 B-96; P(A) 20,4398

hadopamopue podome 3 Beptaum 23 (3)
Sal-ganne!
p = 0,2, $n = 10$ , $m = 4$ $p = 0$ $m = 0$
10 = (100,240,86 = 0,0881
3-96:0,0881
3ab ganna 2.
B-961 mo = 4 3 , P(A)= 0,2337
3abgarne 3.
n=10, p=0,6;
a) $m \le 4$ : $P_{10}(m \le 4) = P_{10}^{\circ} + P_{10}^{\dagger} + + P_{10}^{\dagger} = 0,1662$
10 (3 ≤ m < 5) = P10 + P10 + P5 = 0,3546
Sabgarna 4.
n = 2000, $p = 0,001$
$P_m \approx \frac{\lambda^m - \lambda}{m!} e^{-\lambda}$ , $\lambda = np \Rightarrow np = 2$
9) P <sub>5</sub> $\approx \frac{25}{51} \in ^{2} \approx 0,0361$
$\delta$ ) $P(m \le 3) = P_0 + P_1 + P_2 + P_3 = 0$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$
B of the second
13-96: (1) 9,0361; 010,857)
B-96; a) 0,0361; 610,857;
(3-96; 4) 9,0361; 8) 0,857)

Salgarna 5 P=0,1 , n=400 Bunspuema e uro inmerpanony mespeny nameaca?  $P_{n}\left(m_{i} \leq m \leq m_{2}\right) = P\left(\chi_{2}\right) - P\left(\chi_{i}\right)$   $Qe \quad P\left(\chi_{i}\right) = \frac{1}{\sqrt{2}\pi} \int_{0}^{\pi} e^{\frac{\pi}{2}} dt, \quad \chi_{i} = \frac{m_{i} - np}{\sqrt{npq}}$ a) P400 2 0,016453 б) Рчоо (30 € M € 50) = Ф(1,66) - Ф(-1,66) = = 2 9(1,66) = 2.0,4520 = 0,904 Proo ( m < 30) = Proo (0 5 m < 30) = P(-1,66) -P(-6,66) = 0,5 -0,4520 = 0,048 B-96: a) 0,016453 3abganne 6. 8,0,904 6,0,048 P=0,3 , n=5 ; a) P' = C' 0, 3' 0, 7 "= 0,36015 S) P5 (m>1) = 1- P5 (m x1) = 1- P5 = 0,83193 B-96! a) 0,36015; 8) 0,83193