Колболев ДО. Задание пв. Динашическое програминерование вол- 6301-0203020

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	X	ficx)	1 F2(X)	fock)	Fu(x)		k	X4	FACKI	-	
	0	0	0	0	0		0	0	0	0	
	1	1	3	2	2		1	0	1	1	
	2 3	3,5	2	3,5	3,5		2	0	0		
	4	4	2	5	3		2	1	1	2	
	5	5	2	6	3 3			012	2		
$W_4(k) = \max_{k \ge x_0 \ge 0} \{f_0(x_0)\}$							3	2 3	0125	3,5	
	K	Xy V	Vu					0	3,5		
	0	THE RESERVE AND ADDRESS OF THE PERSON NAMED IN	0				4	1 2	0 1 2	25	
	1 2 3 4 5	2 3	2					3	3,5	3,5	
4 3 3,5								0	0		
	5	3 1	3,5					1	1		
W3 (4) = max { fs (x3)+ w, (4-x3)}						1		2	5,5	3,5	
A X 5 W 2 W 3 W 3								4	3		
	0	STREET, SQUARE, SQUARE,	0					9	3		
1	0		2	0	3,5						
	0	2		70	5,5	7					
2	11	3	3,5	5 3		+		K	(X) I	V3	
	(3)	3 5,5		5 2 3 4 5	161				00		
				5	16			1	0 0		
3	1	4	4,5					0 1 2 3 4	2 3	,5	
9	(2	4,5	113					3	2 4	5	
-	3	4						4	2 5	5 5	
	012309034	3,5 4,5 4,5 5,5 5,5 5						5	2 3		
4	10	55	5,5								
t	3	5									
	4	5									

Wi(k) = max { f2(x3) + W3(k-x3)3 42X220 WZ k X1 W1 W1 7,5 5,5 6,5 5,5 1 7,5 1) x, * = 0 6,5 5 2 7 6,5 k, += 5-x, += 5-0=5 => x=1 k2 = k, - X; = 5-1=4=> X; = 1 k3 = k2 - X3 = 4-1=3=> X4=3 4,5 ky = ks + - X+ = 3-3=0 3) X, =0; X2=1; Xx = 2 2) X, = 0 k3 = 4-2=2=>x4 = 2 k, = 5=> x2 = 2 £4*=0 k2 = 3 => X3 = 2 k3 = 1 = > X4 = 1 ky = 0 4) x, =1, k, x=4=> x2 x= +; k2 = 3 => x3 = 2; 4 * = 1 => X, * = 1 , k, * = 0

Kartanel \$10 6301-0203020 =0 | x1.0 F = (X,-4)2+ (x2-3)2 -> mex haward Do 2x1+3x276 6301-020020 2, x + x = 1 3x1-2x2 =18 $y_2: \frac{X_1}{6} + \frac{X_2}{-9} = 1$ $-x_1+2x_2 \le 8$ 93 X1 + X2 = 1 (X1, X2) >0 020 ولا 72 $\begin{array}{c|c} = 4 & \begin{cases} 3x_1 - 2x_2 = 18 \\ -x_1 + 2x_2 = 8 \end{cases}$ 2x, = 26 => x, = 13 2x2=21 => X2=10,5 anben: X1 = 13; X2 = 195; F = 137,25

5) x; =1; x2 =2. 42 = 9-2 = 2=> x; = 2: 43 =0=> x4=0 => x4=0 = Vertoyeek \$0 6301-0203020 6/X1=2, 41=3=> x2=1; 4=2=> x3=2; 4=0=> x4=0 *) x, *= 3; k, *= 2 => x, *= 1; k, *= 1 => x, *= 1; k, *= 0 => x, *= 0 Nt. F= 3x,+4x, = max $x_1^2 + x_2^2 \le 25$ X, X2>4 X2= 4 X170, X,70

F = 3.5+4.4=25 Denbern: X1 = 3, X2 = 9, F=25

Oneben: (0, 1, 1, 3), (0, 1, 2, 2), (0, 2, 2, 1), (1, 1, 2, 1), (1, 2, 2, 0), (2, 1, 2, 0), (3, 1, 1, 0)

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Fa=12: 3x1+4x1=12

$$\frac{x_1}{4} + \frac{x_2}{3} = 1$$

$$\chi_{2}^{2} = 25 - \chi_{1}^{2}$$

$$X_2 = \sqrt{2S - X_1^2}$$

$$X_{3}^{2} = -\frac{x_{1}}{\sqrt{25-x_{1}^{2}}} = -\frac{3}{4}$$

Variand 8.0 0) F = (X, -9)2 + (X2 - 3)2 → min Aulen: X = 4; X = 3, F=0 ~3. F= X1+ X2 + X3 > min X : X2 X3 = 1 n = 3, m = 1 P(x, 1) = x + x + x + x + A(x, x = x - 1) $\left(\frac{\partial \varphi}{\partial X_1} = 1 + \lambda X_2 X_5 = 0\right)$ X3 = x, X2 1 37 = 1+ 1 X1 X3 = 0 1 + 1 x2 x x = 0 12 x3 = 1 + 1 x1 x2 = 0 $\frac{\lambda}{x} = -1 = \lambda = -x_1$ 38 = XIX2-X3-1=0 4 - X, 'X1-X3=0 1- X12 1 =0=> X1 =1=> =>X1=X2 1+ (-x1) ×2 = 0 1 - X, (X, X) = 0 => X,3=1=> X,=1 $X_1 = 1$, $X_2 = 1$, $X_3 = 1$, A = -1 $U = \begin{pmatrix} 0 & \lambda x_3 & \lambda x_2 \\ \lambda x_3 & 0 & \lambda x_1 \end{pmatrix} = \begin{pmatrix} 0 & -1 & -1 \\ -1 & 0 & -1 \end{pmatrix} = \begin{pmatrix} 0 & -1 & -1 \\ -1 & -1 & 0 \end{pmatrix}$

Q

Q

 $Q = \begin{pmatrix} \frac{3}{4} & \frac{3}{4} & \frac{3}{4} \\ \frac{3}{4} & \frac{3}{4} & \frac{3}{4} & \frac{3}{4} \end{pmatrix} = (X_2 X_3 \ X_1 X_3 \ X_1 X_2) = (111) \text{ Kardand 30}$ $Q = \begin{pmatrix} \frac{3}{4} & \frac{3}{$ $a = \begin{pmatrix} 1 \end{pmatrix} \qquad m^{B} = \begin{pmatrix} 0 & Q \\ Q' & H \end{pmatrix} = \begin{pmatrix} 0 & 0 & 1 & 1 & 1 \\ 1 & 0 & 0 & -1 & -1 \\ 1 & -1 & -1 & 0 \end{pmatrix}$ 83=0-1-1-0-0-0=-2 Du = - 3 (-1) 4=-1 (1,1,1) - m. min