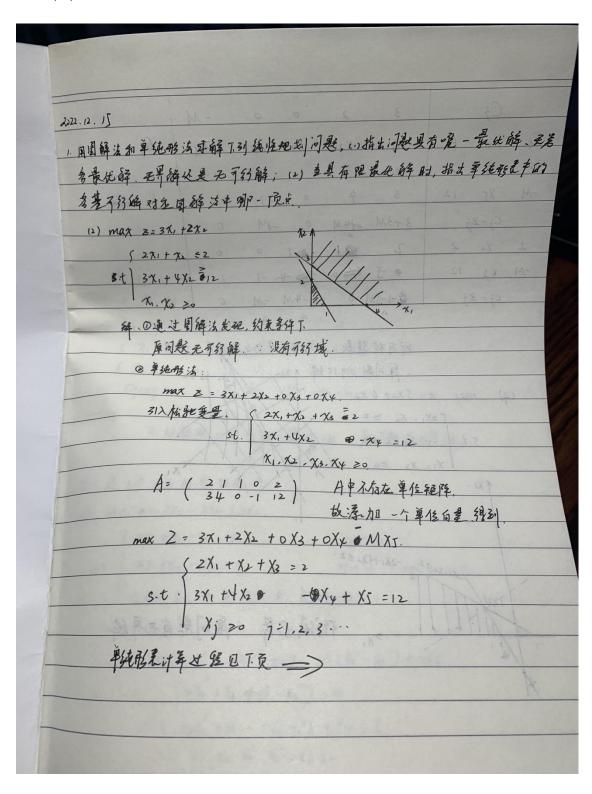
# 运筹学教程第一章作业

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#### 1.1 (2)



### 1.1 (4), 1.2

(2) 3 2 0 0 -M	
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Co X8 B X1 X2 X3 X4 入」 日 日	
Co Xa B Xi Xa Xi Xi Ty 日 日 Cj 方 6 0 0 -M  O X3 2 2 1 0 0 2 0 Cg Xa b Xi Xi Xi Yi Yi 日 Gj  -M Xf 12 3 4 0 -1 1 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
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-M X5 12 3 4 0 - 1 1 4 1 2 2 - 1 - 1 0 1 1 - 2 2 - 1 - 1 0 1 1 - 2 2 - 1 - 1 0 1 1 - 2 2 - 1 - 1 0 1 1 - 2 2 - 1 - 1 0 1 1 - 2 2 - 1 - 1 0 1 1 - 2 2 - 1 - 1 0 1 1 - 2 2 - 1 - 1 0 1 1 - 2 2 2 - 1 - 1 0 1 1 - 2 2 2 - 1 - 1 0 1 1 - 2 2 2 - 1 - 1 0 1 1 - 2 2 2 2 3 0 1 0 - 4 2 2 2 3 0 1 0 - 4 2 2 2 3 0 1 0 - 4 2 2 2 3 0 1 0 - 4 2 2 2 3 0 1 0 - 4 2 2 2 3 0 1 0 - 4 2 2 2 2 3 0 1 0 - 4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
- M X1 2 2 - 1 - 0 - 1 - 1 - 1 - 2 - 2 - 3 0 1 0 - 4 - 2 - 3 0 1 0 - 4 - 2 - 3 0 1 0 - 4 - 2 - 3 0 1 0 - 4 - 2 - 3 0 1 0 - 4 - 2 - 3 0 1 0 - 4 - 2 - 3 0 1 0 - 4 - 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
2 Xx 2 7	
-M × 5 12	
Cj-Zj	
(4) max = - Sx+ 6 x2 (2) (2) (2) (2) (2) (2) (2) (2) (2) (2	
「	
所有核 強 及 co 但 基 至 世 の を 有 重 至 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
(4) max E = JX1+6X2.	
(4) max = JX++6X+ (2X1- X2 = 2 S.L -2X++3X= = 2 X,按张数 > 0 但 对 所是 1 约 之 。 原 引起 有 无 开 流 。	100
5.t2x1+3 x2 52	X
12.2年1.选上户知为标准部式	
(a) $\min_{z \in 2X_1 - 2X_2 + 2X_3}$	
1 X 1 A D XX + X A T X A T X A A A A A A A A A A A A A	74
15-16-22 -2X, +5X) = 2 -2X, +5X = 2 -2X, +5X, +5X, +5X, +5X, +5X, +5X, +5X, +5	6
1 A 30 1 20 A 50 A	
1724 五五 · 房间影有无界路。	
Max z' = +2x' +2x - 3(x'-x') +0x4	
(•Xi+1/2 +(Xi-1/3)) = 4	
S.t. = 2x', +Xa - (Xi', x'') + X 4 = 6	
X1, X2, X3, X3, X4 20	-
TAPES OF THE SECOND SEC	

#### 1.4、1.6、1.8

The state of the s	
Color of the second of the	· \$13
13 王斯有董韩 在生哪但是了好棒 新世界春水縣	
(2) max Z = -5X1 + 2X2 = 3X3 = 2X4	C; 2 3 - 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
( 1 +2X2 +3X5 +4Xe = 1	G X0 b X, y2 Y3 X4 X3 A( X7 V)  M X1 8 1 4 2 -1 0 1 0 2 ->  M X1 8 1 4 2 -1 0 1 3
S.t. 2x, +2x2 + x3 +2x4 = 3	1 1 3 2
1 ×7 ≥0 (j=1,2,4)	744M -316M -172M -M -71 0
14 -BX +3 he Manual 12	-3 % 2 1/4 1 ½ -1/4 0 /4 0 8
X1=(X1, X2) \$ X3. X4=0 711 : X1=-4 X2=1/2 X	
X2=(X1,X2) & X2, X4 =0 X1-3/5 X3="/5 #= 5"/5/	1 - 6 + 1 - 10
Xs = (X1, X4) \$ Xe X3 =0 X1 = 1/3 X4=1/4, X	3 X2 5 0 1 10 - 1 1/5 - 3 - 1/5 1 + 10 1/5
XY = (Xx, Xx) \( \frac{1}{2} \) \( \frac{1}{2} \	0 0 -60 < 0 < 0 < 0 < 0 5 ]
X6 = 1X3, X4) = X1, X1 = 0 X3 = 1 X4=1, Z=-3 \ 4	: 商最低能力 X=(芋,芋,0,0,0,0,0) 3
Then check if z max & X; 20	X: 超强数 -0 . 在北岸最优解
X4 = (X2 X2) X2 (X XX)	la E Marie
V/ - (Y, X/) 是可行前年.	j.8 max 2= CiXi + CoX2· 整族草纸粉末鲜酱。
是最終終	$\begin{cases} a_{1}x_{1}+a_{2}x_{2} \leq b, & x_{1} & x_{2} & x_{3} & x_{4} \\ & & & & & & & & & & & & & \\ & & & & $
1X51 1X6 - 1X6 - 2 Hate 141	X <sub>1</sub> , X <sub>2</sub> 20 X <sub>2</sub> 1 0 1 1
1.6 KM is the	·
(1) min == 2x + 13x + x > max == -2x - 3x - x 3 + 0x + 0x 1 - mx - mx = -2x - 3x - x 3 + 0x + 0x 1 - mx - mx = -2x - 3x - x 3 + 0x + 0x - mx = -2x - x - x 3 + 0x - x - x - x - x - x - x - x - x - x	* au que be be, au Que C. Cr.
( X1 +4 x2 +2 x3 ≥8	max z = c,x, +C,x, +0x, +0x,
	{ a11 X1+an X2 + X3 = b1
X1.X1.X2.X3.20 X1.20 (7:1	s.t. ar x + 49 > x + x y = be.
The state of the s	X) 24.
3-48 (A. 1) - 41 - 18	all all
A STATE OF THE STA	

## 1.13 (模型的求解使用 matlab 进行)

	THE RESERVE AND DESCRIPTION OF THE PERSON NAMED IN
, Cj C, C, O o	1.13 某创养场动物出售,设备失动物王为高7mg受自压 3mg不均原、100 mg.维土等。
CB XB b X, Xx Xx Xx Bj.	钢棒 蛋白质 矿物质 维克克 价接
0 x3 b, an an 1 0 b/2, -2.	1 3 0.5 0.2
0 Xx b2. as as 0 1 b2/	2 2 0.5 1.0 0.7
	3 1 0,2 0,4
C. X. Man 1 ang 1/an 0	ψ
O Xx b an Bo as - and - an	5 18 0.5 2.8 0.8.
$0  C = \frac{C_1 a_0}{a_1} = \frac{C_1}{a_1}  0$	多过能选及主长享至文 最为统的 为景
$ = \frac{C_1 \times 1}{b_2 - \frac{b_2 a_1}{a_1}} \frac{1}{0} \circ \frac{1}{a_1} - \left[ \frac{a_2 a_1}{a_1} \right] \div \left(a_2 - \frac{a_2 a_2}{a_1}\right) \cdot \frac{a_1 a_2}{a_1} - \left[ \div \left(a_{2a} - 1\right) \frac{a_2}{a_1}\right] $	100 700
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	解 其幕:700g 蛋白质 30g 对构质. 新男 维笔.
- La 2 d & Ardur A	漫篇种美 久g 即 久 xx xx xx xx.
根据题色(Cass-Q12011)=1 212=-2	min Z= (02 X1 + 07X2 To 4x3 + 0 3X4 + 0 8X5) X103
$\frac{1}{a_{11}} \operatorname{g2L} \left(-\frac{a_{21}}{a_{11}}\right) = 3$	(3x, t2x2 + x3 + 6x4 H8xx ≥ 700
$-\frac{\partial z}{\partial z} = \rho$	X + 0. JX2 +0. 2X2 +0. JXJ ≥ 30
$\begin{cases} a_{11} = 1 \ a_{22} = 2 \\ a_{21} = 4 \ a_{22} = 4 \end{cases} = 4 \ a_{22} =$	1. 5 X 1+8 X2 + 0.2 X3 + 2 X4 + 0.3 X5 2/00.
AN AN OLD THE CONTRACT OF THE	Xj 20. (j214)
母: C, X, b, 1 -2 / 0 - 5	max 2 - (0.247, 0.75, po.) 1/2 + * 3.5×4 + 0.8×5) × 10 -3
0 XV bath, 0 1 1 bath, ->	3X + 2 × 1 + X 2 + 1 × 1 + 1 × 1 + 1 × 1 + 1 × 1 × 1 × 1
0 G+2G1 -C1 0	XL taffe +02X + 2X +2 X 1 - 17 = 20
C, X, 0 36 the 1 0 3 2 536, the = 3	44. X=(00,0,39.74,25.64)
C2 1/2 bath, 0 1 1 1 1 1 1 1 1 1 1 1 1 1 2 2 1	Z=32.44 K.
0 0 -36, -62 -26, -63 3 561= = 2	
{-201-C=-2 {C1=-1	
$\begin{cases} 3G - G = -2 & G_{1,2} - 1 \\ -2G_{1} - G_{2} = -3 & G_{2,1} - 1 \\ G_{2,1} - G_{2,2} = -3 & G_{2,2} - 1 \\ G_{2,1} - G_{2,2} = -3 & G_{2,2} - 1 \\ G_{2,2} - G_{2,2} - G_{2,2} = -3 & G_{2,2} - 1 \\ G_{2,2} - $	
1. au = -1 (1 = 1).	
b1=1   b2=2	