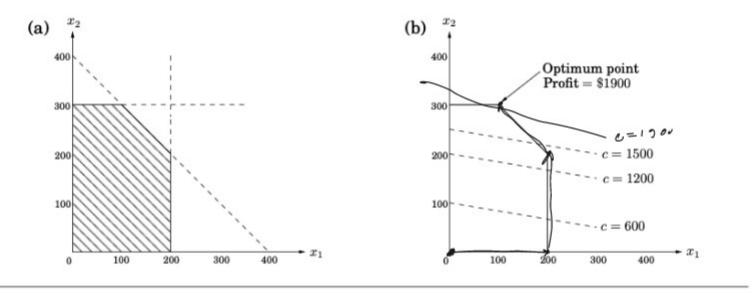
Frankinos Merreapharinos: ~ 200 hijg 4124 3:6€ ~>300 X1: # Weygezul Los A X2: # hoppend. and B reapplie religanti: max X1.1 + X2.6 Luly who this onepan X 1 5 200 \ necroentoi X2 5 300 X1+X2 = 400 X1, X2 > 0

**Figure 7.1** (a) The feasible region for a linear program. (b) Contour lines of the objective function:  $x_1 + 6x_2 = c$  for different values of the profit c.

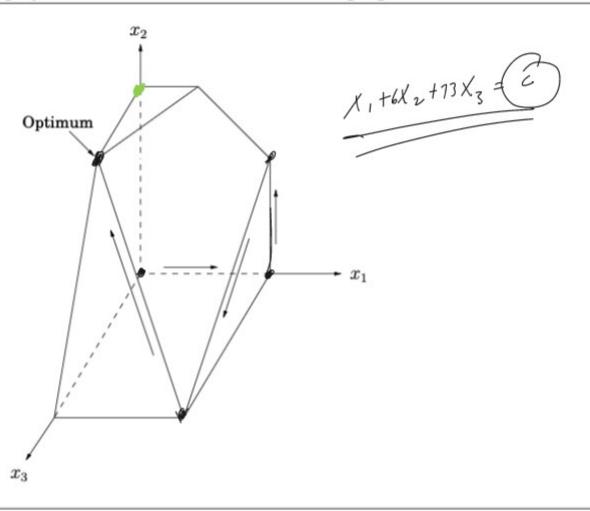


X1+6X2=C

ſ: 13 €

mdx X1 + 6 X2 + 13'X3 X1 = 200 X 2 = 300 X.1+X2+X35400 X2+3X3 6 600 X1, X2, X3 70

Figure 7.2 The feasible polyhedron for a three-variable linear program.



Krius Simplex i

Kerly Minhim:

 $O(\frac{m+n}{n})m.n$ 

Varmaruan ~3

no)/us as isend pos Entrum rean. Morell.

resentaments,

MP- Ningh

## hasigne hoquedu.

$$\gamma_{i}, \gamma' = 1, 2, -7, \gamma$$

$$\gamma_{i} \in \{0, 1\}$$

Au'

red min  $X_1 + X_2 + -- + X_m$ red  $X_1 + X_2 + -- + X_m$   $X_1 + X_2 > 1$   $X_1 + X_2 > 1$   $X_1 + X_2 > 1$   $X_2 + \{0,1\}$   $X_1 + \{0,1\}$   $X_2 + \{0,1\}$   $X_1 + \{0,1\}$   $X_2 + \{0,1\}$ 

rem. néogen. (X2) eum ru Augha.). min XI+X2 H-+Xm Xi + Kj > 1 1+ 51, j] + E  $\chi_i > 0$   $\eta^{i=1,2,-1}$ m OP7 Erixins h.h.

Simplex non Emors worrying

Me whi = 1/2

2.0P7. Em

miro

## Exiliatios raeapupos,

d1, d2, ... d12 ~ Jimm 30 (M2N) i) o-S 7 2000 €

- · Ynquein: 30% amniou 200 pmosos 30% ma messissim
- · 1000000460: Lions 320 €
- · Anorion : Whos wor €
- · And Deaz! vious and interm 8€ 20 XAD;

wi= # Equal pink i , ==0, -, 12 pr Wo = 30 Xi= # XDi'm no- qu'ixo vas ra più i , i=1, -, 12 XDID som merein m, m mossist Eur h2'= # and Ru ti - # Xas, J- na dustrud 150=0 Si = # S12 = 0

$$w_{i}, x_{i}, o_{i}, h_{i}, f_{i}, s_{i} > 0, i = l, 12$$

$$w_{0} = 0$$

$$s_{0} = 0$$

$$s_{12} = 0$$

$$x_{i} = 20 \quad w_{i} + 0i$$

$$w_{i} = w_{i-1} + h_{i} - 4i$$

$$s_{i} = s_{i-1} + x_{i} - d_{i}$$

$$0i \leq 30 \quad w_{i} - 20 = 6. \quad w_{i}$$

min 2000  $\frac{12}{2}$  wi +320  $\frac{12}{2}$   $h_i +400$   $\frac{12}{2}$   $\frac{12}$   $\frac{12}{2}$   $\frac{12}{2}$   $\frac{12}{2}$   $\frac{12}{2}$   $\frac{12}{2}$   $\frac{12$ 

\* 2000 ~ 100 6 ~ 100 + 80 100 = 100 to mell.