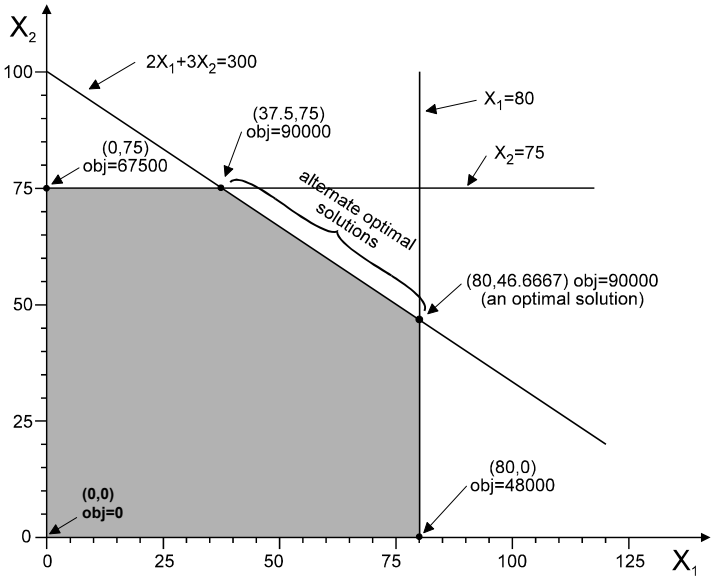
Prob. 20, Cap. 2, pàg. 43, Ragsdale

X_1 = number of desktop computers, X_2 = number of laptop computers

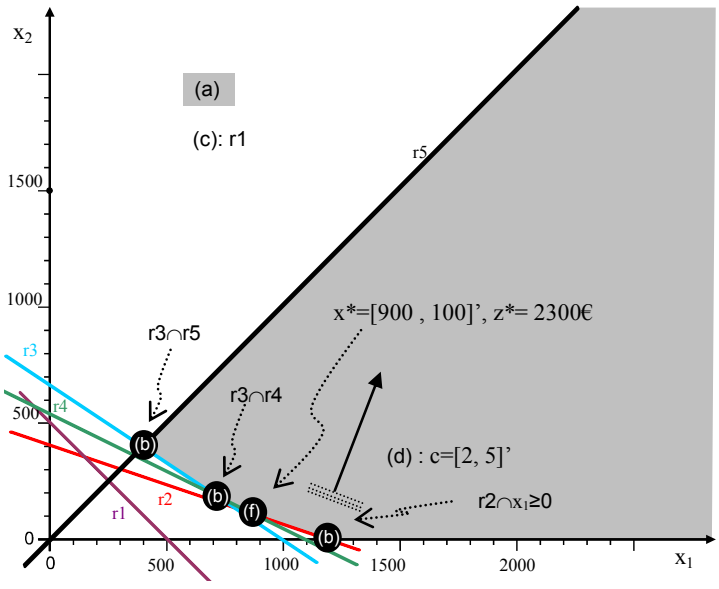
MAX $600\ X_1 + 900\ X_2$
ST $2\ X_1 + 3\ X_2 \le 300$
$X_1 \le 80$
$X_2 \le 75$
$X_1, X_2 \ge 0$



Prob. 20, Cap. 3, pàg. 101, Winston& Albright

x_1 : nombre de trucades matutines
x_2 : nombre de trucades nocturnes

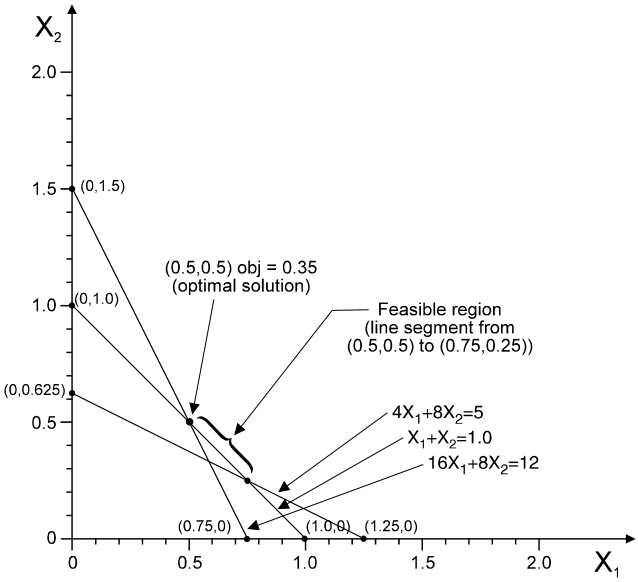
$$\begin{cases} \min \quad z = 2x_1 + 5x_2 \\ \text{s.a.:} \\ \qquad x_1 + x_2 \quad \ge 500 \quad (r1) \\ \qquad x_1 + 3x_2 \quad \ge 1200 \quad (r2) \\ \qquad 2x_1 + 3x_2 \quad \ge 2000 \quad (r3) \\ \qquad x_1 + 2x_2 \quad \ge 1100 \quad (r4) \\ \qquad x_1 - x_2 \quad \ge 0 \quad (r5) \\ \qquad x_1, x_2 \quad \ge 0 \end{cases}$$



prob. 18, Cap. 2, pàg. 42, Ragsdale

X_1 = proportion of ingredient A in the mix, X_2 = proportion of ingredient B in the mix

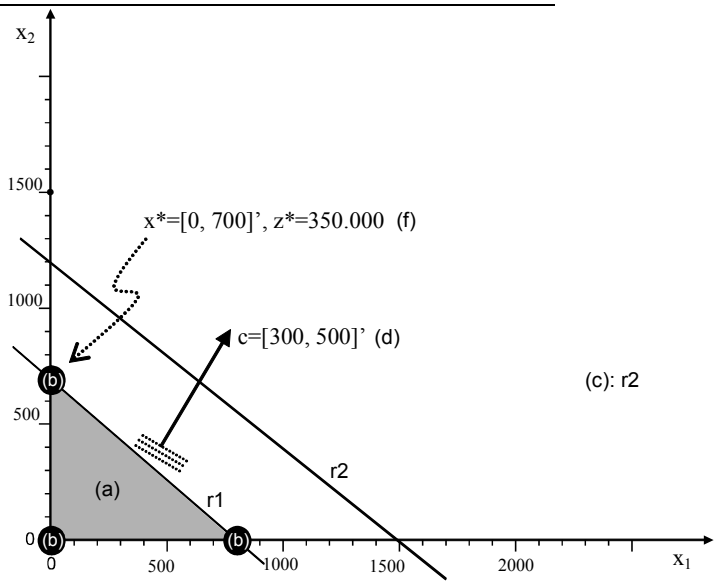
$$\begin{aligned} \text{MIN} \quad & 0.50\,X_1 + 0.20\,X_2 \\ \text{ST} \quad & 1X_1 + 1\,X_2 = 1 \\ & 16\,X_1 + 8\,X_2 \geq 12 \\ & 4\,X_1 + 8\,X_2 \geq 5 \\ & X_1, X_2 \geq 0 \end{aligned}$$



Prob. 7, Cap. 3, pàg. 89, Winston& Albright

x_i : nombre de camions del tipus i , $i = 1, 2$

$$\begin{cases} \max \quad z = 300x_1 + 500x_2 \\ \text{s.a.:} \\ \quad \dfrac{x_1}{800} + \dfrac{x_2}{700} \leq 1 \quad \text{(r1)} \\ \quad \dfrac{x_1}{1200} + \dfrac{x_2}{1500} \leq 1 \quad \text{(r2)} \\ \quad x_1, x_2 \geq 0 \end{cases}$$



Aquest problema te solució única.