

Problem 1: Exercise 16.12

Solve the following linear programs using simplex method:

(a) Maximize $-4x_1 - 3x_2$ subject to

$$\begin{aligned}5x_1 + x_2 &\geq 11 \\-2x_1 - x_2 &\leq -8 \\x_1 + 2x_2 &\geq 7 \\x_1, x_2 &\geq 0\end{aligned}$$