

This is an example document that contains a linear program. The objective of the linear program is:

$$\max 3x_1 + 2x_2$$

The full linear program read as follows:

$$\begin{array}{llll} \max & 3x_1 & + & 2x_2 \\ \text{s.t.} & x_1 & + & x_2 \leq 9 & (\text{constraint 1}) \\ & 3x_1 & + & x_2 \leq 18 & (\text{constraint 2}) \\ & x_1 & & \leq 7 & (\text{constraint 3}) \\ & & & x_2 \leq 6 & (\text{constraint 4}) \\ & x_1, x_2 & \geq & 0 \end{array}$$