

COMPITO RO

$$\min 2x_{11} + 6x_{12} + x_{13} + 4x_{21} + x_{22} + 4x_{23} + y_1 + y_2$$

$$x_{11} + x_{13} \leq 80 + y_1$$

$$x_{22} + x_{23} \leq 60 + y_2$$

$$x_{11} + x_{21} \geq 120$$

$$x_{12} + x_{22} \geq 30$$

$$x_{13} + x_{23} \geq 10$$

$$x_{11}, x_{12}, x_{13}, x_{21}, x_{22}, x_{23}, y_1, y_2 \geq 0$$

Implementare il modello in AMPL definendo un opportuno file .mod e un opportuno file .dat e trovare la soluzione ottima.

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$$\begin{aligned} \min & 3x_{11} + 3x_{12} + x_{13} + 8x_{21} + x_{22} + 4x_{23} + y_1 \\ & x_{11} + x_{12} + x_{13} \leq 80 + y_1 \quad \text{---} x_1 - x_2 - x_3 + y_1 \geq -80 \\ & x_{21} + x_{22} + x_{23} \leq 60 \\ & x_{11} + x_{21} \geq 120 \\ & x_{12} + x_{22} \geq 30 \\ & x_{13} + x_{23} \geq 10 \\ & x_{11}, x_{12}, x_{13}, x_{21}, x_{22}, x_{23}, y_1 \geq 0 \end{aligned}$$

Implementare il modello in AMPL definendo un opportuno file .mod e un opportuno file .dat e trovare la soluzione ottima.