

Student Number: 1
Student ID: 999

Minimise: $z = -1x_1 + 3x_2 - 5x_3 - 6x_4 + 1x_5 - 7x_6$

Constraint Equations:

$$\begin{aligned} -4x_1 - 2x_2 + 3x_3 + 3x_5 + 4x_6 + 1x_7 &= -6.12027738 \\ -2x_1 + 4x_2 + 2x_3 + 1x_5 - 2x_6 + 1x_8 &= -11.02696065 \\ +3x_1 + 4x_2 + 3x_4 + 1x_5 + 2x_6 + 1x_9 &= 71.51314053 \\ -1x_1 + 4x_2 + 5x_3 - 1x_4 + 3x_5 - 2x_6 + 1x_{10} &= 6.12216367 \\ +5x_1 - 2x_2 - 3x_5 - 2x_6 + 1x_{11} &= 20.24551392 \\ +1x_1 - 2x_2 + 5x_3 - 4x_4 + 4x_5 - 3x_6 + 1x_{12} &= -12.24351262 \end{aligned}$$

$$x_i \geq 0, i = 1, \dots, n.$$

Student Number: 2
Student ID: 888

Minimise: $z = -2x_1 - 3x_2 + 5x_3 + 3x_5 - 5x_6$

Constraint Equations:

$$\begin{aligned} +2x_3 - 2x_4 - 1x_5 + 4x_6 + 1x_7 &= 57.50638497 \\ -4x_1 - 3x_2 - 4x_3 + 1x_4 + 4x_6 + 1x_8 &= 6.12607317 \\ +2x_1 + 3x_2 + 1x_3 - 2x_4 + 1x_5 + 1x_9 &= 53.41050231 \\ -3x_1 + 4x_3 + 3x_4 + 3x_5 + 3x_6 + 1x_{10} &= 70.43139472 \\ +3x_1 + 1x_2 - 1x_3 + 3x_4 - 5x_5 + 4x_6 + 1x_{11} &= 57.14633666 \\ -1x_2 + 2x_3 + 5x_4 - 3x_5 + 2x_6 + 1x_{12} &= 2.79399980 \end{aligned}$$

$$x_i \geq 0, i = 1, \dots, n.$$

Student Number: 3
Student ID: 777

Minimise: $z = -7x_1 - 1x_2 + 1x_4 - 7x_5 + 2x_6$

Constraint Equations:

$$+1x_1 - 2x_2 - 3x_3 + 3x_4 - 2x_5 - 4x_6 + 1x_7 = -50.37428659$$

$$+1x_1 - 4x_2 - 3x_3 + 3x_4 - 2x_5 - 3x_6 + 1x_8 = -64.30197749$$

$$-1x_1 - 2x_2 - 2x_4 + 4x_5 + 2x_6 + 1x_9 = 21.53777456$$

$$+4x_1 - 3x_2 + 1x_3 - 2x_4 - 1x_5 + 1x_6 + 1x_{10} = 14.35914962$$

$$+1x_1 - 2x_2 - 3x_3 - 3x_4 - 1x_5 - 3x_6 + 1x_{11} = -108.58869846$$

$$+1x_1 + 3x_2 + 1x_3 - 1x_4 + 1x_5 + 3x_6 + 1x_{12} = 87.29032187$$

$$x_i \geq 0, i = 1, \dots, n.$$