

Student Number: 1
Student ID: 15169448

Minimise: $z = +6x_1 - 2x_2 - 3x_3 - 5x_4 + 5x_5 - 5x_6 - 3x_7 + 5x_8 - 1x_9 + 1x_{10}$

Constraint Inequalities:

$$\begin{aligned} +1x_1 + 3x_2 - 4x_3 + 3x_4 + 4x_5 - 3x_6 - 2x_7 - 3x_8 - 2x_9 + 2x_{10} &\leq -13.74385196 \\ +1x_1 + 2x_2 + 2x_3 + 1x_4 - 4x_5 + 4x_7 + 3x_8 + 2x_9 - 2x_{10} &\leq 72.33070423 \\ -1x_1 + 4x_2 + 1x_5 + 2x_6 + 3x_8 + 3x_9 + 2x_{10} &\leq 188.87890777 \\ -5x_1 - 4x_2 - 3x_3 + 2x_4 + 1x_5 + 5x_6 + 5x_7 - 2x_8 - 1x_9 - 4x_{10} &\leq -122.93099460 \\ -3x_2 - 1x_3 + 2x_4 + 2x_5 - 1x_6 - 4x_7 - 3x_8 - 1x_9 - 4x_{10} &\leq -132.95940398 \\ -1x_1 - 3x_3 - 4x_4 + 4x_5 - 4x_6 - 3x_7 - 2x_8 - 3x_{10} &\leq -78.82923106 \\ -4x_1 + 5x_2 + 3x_3 + 4x_4 - 4x_5 - 4x_6 + 3x_7 + 3x_8 - 2x_9 - 4x_{10} &\leq 38.31906159 \\ +3x_2 - 1x_3 - 5x_4 + 3x_5 + 1x_6 + 4x_7 + 3x_8 + 2x_9 + 1x_{10} &\leq 171.98845199 \\ +4x_3 - 2x_4 + 3x_6 + 3x_7 + 1x_8 + 4x_9 - 4x_{10} &\leq 102.57112752 \\ +1x_1 - 2x_2 - 5x_3 - 3x_4 + 2x_5 + 2x_6 - 2x_7 + 1x_8 + 4x_9 + 3x_{10} &\leq 15.16049996 \end{aligned}$$

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

Student Number: 2
Student ID: 16108957

Minimise: $z = -4x_1 + 3x_2 - 3x_3 - 3x_4 - 7x_5 - 2x_6 - 1x_7 - 3x_8 - 3x_9 - 4x_{10}$

Constraint Inequalities:

$$\begin{aligned} -4x_1 + 2x_2 - 4x_3 + 2x_4 - 4x_5 + 4x_6 - 1x_7 - 3x_8 + 3x_{10} &\leq -69.80476411 \\ +1x_1 - 4x_2 + 4x_3 - 4x_4 + 2x_5 + 2x_7 - 5x_9 + 5x_{10} &\leq -12.37738164 \\ -3x_1 + 3x_2 - 4x_3 + 2x_4 + 1x_5 + 1x_6 + 4x_7 - 4x_8 + 2x_9 - 1x_{10} &\leq 17.36342056 \\ +2x_2 - 1x_3 - 1x_4 - 4x_5 + 1x_7 + 4x_8 - 5x_9 + 3x_{10} &\leq -32.07120909 \\ -1x_1 + 4x_2 + 1x_3 + 3x_4 - 4x_5 - 4x_6 - 2x_7 - 1x_8 + 5x_9 - 4x_{10} &\leq -33.62244622 \\ -2x_1 - 4x_2 + 5x_3 - 1x_4 + 5x_5 + 4x_6 - 3x_7 + 2x_9 + 1x_{10} &\leq 104.76751137 \\ +2x_1 + 4x_2 - 2x_4 - 2x_6 - 1x_7 + 1x_8 + 4x_9 - 1x_{10} &\leq 61.76667647 \\ +5x_3 + 5x_4 - 5x_5 - 2x_6 - 5x_7 + 2x_8 + 2x_{10} &\leq -36.14319415 \\ +3x_1 + 1x_2 - 3x_3 + 2x_4 - 4x_5 + 1x_6 + 4x_7 - 1x_8 - 3x_9 - 2x_{10} &\leq -6.13019908 \\ -3x_1 - 2x_2 - 1x_3 - 1x_4 - 4x_5 + 1x_7 - 4x_8 - 2x_9 - 4x_{10} &\leq -177.49312639 \end{aligned}$$

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

Student Number: 3
Student ID: 16155122

Minimise: $z = -4x_1 - 5x_2 + 1x_3 - 4x_4 - 4x_5 + 4x_6 - 2x_7 - 6x_8 - 4x_9 - 2x_{10}$

Constraint Inequalities:

$$\begin{aligned} &+5x_1 + 3x_2 + 4x_3 - 4x_4 - 3x_5 - 1x_6 - 5x_7 + 3x_9 + 3x_{10} \leq 95.45361443 \\ &+5x_1 - 4x_2 + 1x_3 + 5x_4 - 2x_5 + 3x_6 + 3x_7 + 4x_8 - 4x_9 + 1x_{10} \leq 42.07552186 \\ &\quad -2x_1 - 4x_3 + 1x_4 + 1x_8 + 4x_{10} \leq 44.21016401 \\ &\quad -2x_1 + 2x_2 - 1x_3 - 3x_4 + 1x_5 + 1x_6 - 4x_8 + 4x_9 + 1x_{10} \leq 14.34150253 \\ &+5x_1 - 3x_2 - 3x_3 - 1x_4 - 1x_5 - 3x_6 + 4x_7 + 1x_8 - 4x_9 - 1x_{10} \leq -105.43642552 \\ &\quad +3x_1 + 5x_3 + 4x_4 + 4x_5 - 4x_6 - 1x_7 - 3x_8 + 1x_9 + 1x_{10} \leq 26.08359905 \\ &\quad +3x_1 - 1x_2 - 2x_5 + 1x_6 - 1x_8 - 4x_9 \leq -100.84352524 \\ &\quad +1x_1 + 3x_2 + 4x_3 + 1x_5 + 5x_6 + 2x_7 - 1x_9 - 4x_{10} \leq 66.38605655 \\ &+3x_1 + 2x_2 + 1x_3 - 1x_4 - 2x_5 - 4x_6 - 4x_7 + 4x_8 + 2x_9 + 1x_{10} \leq 112.97942440 \\ &\quad -1x_1 + 5x_2 - 3x_4 - 2x_5 - 3x_6 + 2x_8 - 4x_9 + 5x_{10} \leq 64.30300093 \end{aligned}$$

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

Student Number: 4
Student ID: 16176162

Minimise: $z = -1x_1 - 2x_2 + 5x_3 + 5x_4 + 5x_5 - 4x_6 - 5x_7 + 1x_9 + 2x_{10}$

Constraint Inequalities:

$$\begin{aligned} &+2x_1 - 4x_2 + 3x_3 + 5x_4 + 1x_5 + 3x_6 + 2x_7 + 3x_8 + 3x_9 \leq 161.33789436 \\ &-5x_1 + 2x_2 + 4x_3 - 1x_4 - 2x_5 + 3x_6 - 3x_7 + 3x_8 + 3x_9 + 3x_{10} \leq 62.85873804 \\ &\quad -4x_1 + 3x_2 + 4x_3 - 3x_4 + 1x_6 - 3x_7 - 1x_8 + 1x_9 + 1x_{10} \leq 30.02348821 \\ &\quad +4x_2 + 3x_4 - 1x_5 + 1x_6 - 4x_7 - 2x_8 - 4x_9 + 3x_{10} \leq 33.62302634 \\ &+3x_1 + 3x_2 + 3x_3 + 1x_4 - 4x_5 - 2x_6 + 2x_7 - 4x_8 + 1x_9 + 5x_{10} \leq 148.70541326 \\ &\quad +3x_1 + 4x_2 + 4x_3 + 5x_4 + 1x_5 + 4x_7 + 2x_8 + 2x_9 + 2x_{10} \leq 317.76962262 \\ &\quad +1x_1 + 3x_3 + 4x_5 + 5x_6 + 3x_7 + 1x_8 - 1x_9 + 1x_{10} \leq 159.54051248 \\ &\quad -1x_1 + 5x_2 + 4x_3 - 2x_4 + 1x_5 + 2x_7 - 5x_8 - 3x_9 + 1x_{10} \leq 95.54052375 \\ &+4x_1 + 5x_2 - 1x_3 + 2x_4 - 2x_5 + 2x_6 - 4x_7 - 1x_8 - 2x_9 - 4x_{10} \leq -53.49100436 \\ &\quad -2x_1 + 3x_3 + 4x_4 + 4x_5 - 1x_8 + 5x_9 + 4x_{10} \leq 297.60358791 \end{aligned}$$

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

Student Number: 5
Student ID: 16178602

Minimise: $z = -7x_1 - 7x_2 - 1x_3 - 6x_4 + 6x_5 + 1x_6 + 2x_7 - 3x_8 - 1x_9 - 7x_{10}$

Constraint Inequalities:

$$\begin{aligned} +1x_1 - 4x_2 + 2x_3 - 3x_4 + 1x_5 - 4x_6 + 4x_7 - 1x_8 - 5x_9 + 3x_{10} &\leq 29.79182901 \\ +4x_1 - 2x_2 - 4x_3 + 2x_4 - 2x_5 + 4x_6 + 2x_8 - 3x_9 - 4x_{10} &\leq -110.77946099 \\ +4x_2 + 5x_3 - 3x_4 - 1x_5 + 2x_6 - 5x_7 + 3x_8 + 4x_9 - 3x_{10} &\leq 49.50277095 \\ +1x_2 - 1x_3 + 1x_4 + 2x_5 + 3x_6 - 3x_7 + 4x_8 - 4x_9 + 1x_{10} &\leq -75.12471687 \\ +3x_1 - 4x_3 + 5x_4 + 3x_5 + 4x_6 + 1x_7 + 3x_8 + 3x_9 - 2x_{10} &\leq 120.63313060 \\ +2x_1 + 4x_2 - 4x_3 + 2x_4 - 2x_5 + 1x_6 - 4x_7 - 2x_8 - 3x_9 - 2x_{10} &\leq -195.42942800 \\ -2x_2 + 5x_3 + 5x_4 + 2x_5 + 4x_8 + 4x_9 + 3x_{10} &\leq 262.59343573 \\ +1x_1 + 4x_2 + 1x_3 + 3x_4 + 1x_6 - 3x_7 + 1x_9 + 1x_{10} &\leq 39.42331951 \\ +2x_1 + 1x_2 - 3x_5 + 5x_6 - 2x_7 - 2x_8 - 3x_9 + 2x_{10} &\leq -79.48570695 \\ +2x_2 + 1x_3 - 1x_4 - 2x_5 + 1x_6 - 4x_7 - 3x_8 + 3x_9 + 2x_{10} &\leq -2.81768491 \end{aligned}$$

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

Student Number: 6
Student ID: 16186885

Minimise: $z = +6x_1 + 5x_2 - 7x_3 + 4x_4 - 4x_5 - 1x_6 - 5x_7 - 4x_8 + 3x_9 - 6x_{10}$

Constraint Inequalities:

$$\begin{aligned} -2x_1 - 1x_2 - 2x_3 + 3x_4 + 4x_5 + 3x_6 - 1x_7 + 4x_8 + 3x_9 + 3x_{10} &\leq 180.21754708 \\ +1x_1 - 3x_2 - 5x_3 + 3x_4 - 3x_5 + 5x_6 - 4x_7 + 4x_8 - 5x_9 - 1x_{10} &\leq -8.75845824 \\ -1x_1 - 3x_2 - 2x_3 + 1x_4 + 4x_5 + 3x_6 - 5x_7 + 5x_8 + 4x_9 - 2x_{10} &\leq 88.17417908 \\ -2x_1 - 2x_2 + 3x_3 - 2x_4 - 4x_5 - 2x_6 + 2x_7 - 1x_8 + 2x_9 + 2x_{10} &\leq -146.02486283 \\ -5x_1 + 4x_2 + 4x_3 + 3x_4 - 3x_5 - 5x_6 + 4x_7 + 2x_8 + 1x_9 + 2x_{10} &\leq 35.00141305 \\ +2x_1 + 5x_3 - 3x_4 - 5x_5 + 2x_6 - 1x_7 + 3x_8 + 3x_9 + 4x_{10} &\leq -22.39788596 \\ +4x_1 + 3x_2 - 5x_3 - 2x_4 + 3x_5 - 3x_7 + 1x_8 - 2x_9 + 4x_{10} &\leq 62.98202026 \\ -1x_1 - 4x_2 + 2x_3 - 5x_4 + 2x_5 - 1x_6 + 4x_7 + 2x_8 - 3x_9 - 2x_{10} &\leq -41.60601077 \\ +4x_1 + 1x_2 - 4x_3 - 1x_4 + 4x_5 + 4x_6 + 2x_7 + 2x_9 + 2x_{10} &\leq 189.90044994 \\ +4x_1 + 1x_2 + 1x_3 - 5x_4 + 4x_5 - 4x_6 + 4x_7 + 4x_9 + 1x_{10} &\leq 92.08440333 \end{aligned}$$

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

Student Number: 7
Student ID: 16188748

Minimise: $z = +4x_1 + 4x_2 + 2x_3 + 5x_4 + 2x_5 - 6x_6 - 3x_7 - 4x_8 - 5x_9 - 3x_{10}$

Constraint Inequalities:

$$\begin{aligned} &+3x_1 - 4x_2 - 5x_4 + 1x_6 + 2x_7 + 1x_8 - 1x_9 - 5x_{10} \leq -15.15640854 \\ &+3x_1 - 2x_2 - 2x_4 + 4x_5 + 2x_6 + 5x_7 - 1x_8 - 1x_9 - 3x_{10} \leq 54.65127316 \\ &+2x_1 - 4x_3 + 2x_4 - 4x_6 - 3x_7 + 2x_8 + 4x_9 - 3x_{10} \leq -7.61466356 \\ &+1x_2 + 3x_3 + 4x_4 + 5x_6 - 4x_7 - 3x_8 + 4x_9 - 2x_{10} \leq 43.42632934 \\ &-1x_1 + 3x_2 - 3x_3 + 3x_4 + 3x_5 - 4x_6 - 4x_7 + 5x_8 - 3x_9 + 5x_{10} \leq -2.66806281 \\ &+2x_2 + 3x_3 - 4x_4 - 3x_5 + 4x_6 + 5x_7 - 4x_8 + 3x_9 + 1x_{10} \leq 66.56667563 \\ &+1x_1 + 2x_2 - 5x_3 - 2x_4 - 2x_5 - 4x_6 + 5x_7 + 3x_8 + 2x_9 + 1x_{10} \leq 38.83214124 \\ &-4x_1 + 1x_2 + 3x_3 + 4x_4 - 3x_5 + 4x_6 + 4x_7 + 2x_8 + 1x_9 - 2x_{10} \leq 59.62132151 \\ &+4x_1 - 2x_2 - 1x_3 - 4x_4 + 3x_5 + 1x_6 + 2x_7 - 1x_8 - 1x_9 + 3x_{10} \leq 28.94888597 \\ &+3x_2 + 4x_4 + 1x_5 + 3x_6 - 4x_7 + 4x_8 - 4x_9 - 5x_{10} \leq 53.37668733 \end{aligned}$$

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

Student Number: 8
Student ID: 17040434

Minimise: $z = +5x_1 + 1x_2 - 6x_3 - 2x_4 - 1x_5 - 3x_6 - 3x_7 + 1x_8 - 2x_{10}$

Constraint Inequalities:

$$\begin{aligned} &+2x_1 - 4x_2 - 1x_3 + 3x_4 - 5x_5 - 4x_6 - 1x_7 - 2x_8 - 5x_9 + 3x_{10} \leq -119.80568154 \\ &-2x_1 - 4x_2 + 4x_3 - 3x_4 - 3x_5 - 3x_6 + 4x_7 + 1x_8 + 1x_9 - 3x_{10} \leq -44.29453111 \\ &+2x_1 - 1x_2 + 1x_3 + 1x_4 + 1x_5 + 1x_6 + 4x_7 - 1x_8 + 3x_{10} \leq 107.27131363 \\ &+1x_1 + 2x_2 - 1x_3 + 2x_4 - 3x_5 + 2x_6 + 3x_7 + 1x_8 - 5x_9 \leq 37.04394445 \\ &-4x_1 + 3x_2 - 1x_3 + 4x_4 + 2x_5 - 2x_6 - 4x_7 + 4x_8 + 1x_9 - 1x_{10} \leq -57.55526028 \\ &-1x_1 - 1x_2 - 3x_3 + 1x_5 + 3x_7 + 4x_8 - 2x_9 + 2x_{10} \leq 23.23547927 \\ &-2x_1 + 2x_2 + 1x_3 + 4x_4 + 3x_5 - 3x_6 - 2x_7 - 5x_9 + 5x_{10} \leq -7.05659848 \\ &-4x_1 - 1x_2 + 2x_3 + 2x_4 - 2x_5 + 1x_6 + 1x_8 + 1x_9 + 5x_{10} \leq 67.98979703 \\ &-3x_2 + 1x_3 - 4x_4 - 3x_5 - 1x_6 - 4x_7 - 2x_8 + 5x_{10} \leq -35.40714760 \\ &-2x_1 + 2x_2 + 4x_3 + 4x_4 + 4x_5 - 4x_8 - 1x_9 \leq 35.90480395 \end{aligned}$$

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

Student Number: 9
Student ID: 17184401

Minimise: $z = -4x_1 + 2x_2 + 1x_3 + 5x_4 - 1x_6 + 1x_7 - 4x_8 - 6x_9 - 4x_{10}$

Constraint Inequalities:

$$\begin{aligned} &+3x_1 - 4x_2 + 1x_4 - 2x_6 - 5x_7 + 2x_8 + 1x_9 + 3x_{10} \leq -0.49953170 \\ -3x_1 + 1x_2 - 4x_3 + 3x_4 - 2x_5 - 1x_6 - 1x_7 - 4x_8 - 3x_9 - 5x_{10} &\leq -139.59018733 \\ &+2x_1 - 4x_2 - 1x_4 - 4x_5 + 3x_6 + 4x_7 + 4x_8 + 1x_9 - 4x_{10} \leq 2.74355453 \\ -5x_1 - 2x_2 + 3x_3 + 2x_4 - 2x_5 + 1x_6 - 5x_7 + 4x_8 + 5x_9 + 4x_{10} &\leq -21.97324709 \\ &+5x_1 + 1x_2 + 2x_3 + 3x_4 - 1x_5 + 3x_6 + 4x_8 + 2x_9 - 2x_{10} \leq 197.17938443 \\ -4x_1 - 5x_2 - 3x_3 + 2x_4 + 4x_5 + 3x_7 + 1x_8 + 4x_9 + 4x_{10} &\leq 84.69524440 \\ -4x_1 + 5x_3 + 1x_4 - 3x_5 - 1x_6 + 2x_7 - 1x_8 + 4x_9 + 2x_{10} &\leq -40.26335701 \\ +2x_1 - 2x_2 + 5x_3 + 5x_4 - 4x_5 - 2x_6 - 3x_7 - 4x_8 + 4x_9 + 2x_{10} &\leq 20.48424374 \\ -2x_1 - 2x_2 + 4x_3 + 4x_4 - 5x_5 - 4x_6 + 5x_7 - 1x_{10} &\leq -93.58172008 \\ +2x_1 - 1x_3 - 4x_4 + 3x_5 + 2x_6 + 4x_7 - 1x_8 - 3x_9 + 4x_{10} &\leq 70.98441094 \end{aligned}$$

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

Student Number: 10
Student ID: 17184428

Minimise: $z = +2x_1 - 3x_2 + 5x_3 - 2x_4 - 6x_5 - 6x_6 - 2x_7 + 1x_8 - 7x_9 - 3x_{10}$

Constraint Inequalities:

$$\begin{aligned} &+3x_1 + 4x_2 - 4x_4 + 4x_5 + 3x_6 + 3x_7 + 3x_9 - 4x_{10} \leq 108.88865964 \\ -1x_1 - 3x_2 + 2x_3 - 1x_4 + 4x_5 + 3x_6 - 3x_7 + 3x_8 + 1x_9 + 3x_{10} &\leq 26.87998388 \\ &-4x_1 - 4x_4 + 2x_5 - 2x_6 + 3x_7 - 1x_8 - 5x_{10} \leq -60.44591736 \\ +5x_1 + 2x_2 - 3x_3 - 4x_5 + 3x_6 - 2x_7 + 5x_8 - 5x_9 - 2x_{10} &\leq -40.24943444 \\ +2x_1 + 2x_2 + 1x_4 - 2x_5 - 1x_6 - 1x_8 - 2x_9 + 2x_{10} &\leq 10.57464236 \\ -1x_1 + 3x_2 - 5x_3 - 2x_4 - 2x_5 + 4x_6 - 2x_7 - 4x_8 + 2x_9 + 1x_{10} &\leq -29.62654637 \\ -3x_1 + 2x_2 + 3x_3 + 4x_4 + 4x_5 + 3x_6 + 1x_7 - 3x_8 + 4x_9 + 3x_{10} &\leq 179.11856899 \\ -2x_1 - 3x_3 + 2x_4 + 2x_5 - 2x_6 - 1x_7 + 1x_8 + 2x_9 - 4x_{10} &\leq 0.65640143 \\ &-4x_2 + 2x_4 - 2x_5 - 3x_6 - 2x_7 + 4x_8 + 2x_9 - 4x_{10} \leq -77.48514356 \\ -1x_1 - 1x_2 + 2x_3 + 5x_4 - 4x_5 - 1x_6 - 2x_7 + 1x_8 + 3x_9 &\leq 7.91727520 \end{aligned}$$

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

Student Number: 11
Student ID: 17189942

Minimise: $z = -4x_1 + 1x_3 + 4x_4 + 4x_5 - 4x_6 + 2x_7 + 4x_8 - 4x_9 + 4x_{10}$

Constraint Inequalities:

$$\begin{aligned} &+3x_2 + 1x_3 - 3x_4 + 2x_5 + 3x_6 - 2x_7 - 3x_8 + 3x_9 - 4x_{10} \leq 8.91425256 \\ -4x_1 + 3x_2 + 3x_3 - 1x_4 - 1x_5 + 1x_6 + 2x_7 - 5x_8 - 4x_9 + 5x_{10} &\leq -35.00842379 \\ &+1x_1 + 3x_2 + 4x_3 + 4x_5 - 1x_6 + 3x_7 + 4x_8 - 1x_9 - 4x_{10} \leq 150.36275850 \\ -1x_1 - 1x_2 - 2x_3 - 3x_4 - 2x_5 - 4x_6 + 2x_7 + 1x_8 + 3x_9 - 1x_{10} &\leq -84.78149536 \\ -1x_1 - 5x_2 - 4x_3 + 1x_4 + 1x_5 + 2x_6 + 2x_7 - 4x_8 - 1x_9 - 3x_{10} &\leq -84.64902010 \\ -2x_1 - 5x_2 + 1x_3 - 5x_4 - 2x_5 + 5x_6 + 5x_7 - 1x_8 + 5x_9 + 3x_{10} &\leq -55.00752246 \\ -1x_1 + 4x_2 - 3x_3 + 3x_4 + 4x_5 + 1x_6 - 1x_7 - 4x_8 - 1x_9 + 3x_{10} &\leq 98.34362148 \\ -2x_1 + 4x_2 - 4x_3 - 2x_4 + 3x_5 - 3x_6 + 2x_7 - 3x_8 + 3x_9 - 3x_{10} &\leq 5.01665404 \\ +4x_1 - 2x_2 - 1x_3 - 3x_4 + 1x_5 + 3x_6 + 4x_7 - 4x_8 + 2x_9 + 4x_{10} &\leq 72.92770552 \\ &+1x_1 + 3x_2 + 4x_3 - 2x_4 - 1x_5 + 5x_6 - 4x_7 - 4x_9 - 1x_{10} \leq -32.51166815 \end{aligned}$$

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

Student Number: 12
Student ID: 17198887

Minimise: $z = +2x_1 + 4x_2 - 5x_3 - 5x_4 - 4x_5 + 4x_7 + 1x_8 - 3x_9 + 2x_{10}$

Constraint Inequalities:

$$\begin{aligned} -4x_1 + 1x_2 + 5x_3 + 4x_4 + 1x_5 + 3x_6 - 3x_7 - 4x_8 + 3x_9 - 3x_{10} &\leq 132.47697651 \\ &+2x_1 + 4x_3 - 5x_4 + 4x_5 - 3x_6 + 4x_7 + 2x_8 - 1x_9 + 1x_{10} \leq -36.03002249 \\ &+3x_1 - 2x_2 - 3x_4 + 3x_5 + 5x_6 - 3x_7 + 3x_8 - 4x_9 - 1x_{10} \leq 12.71810721 \\ +5x_1 - 5x_2 + 4x_3 + 3x_4 + 4x_5 + 4x_6 - 5x_7 + 3x_8 + 5x_9 + 1x_{10} &\leq 163.12274951 \\ -4x_1 + 2x_2 + 3x_3 - 2x_4 - 1x_5 + 3x_6 + 4x_7 - 4x_8 + 2x_9 + 3x_{10} &\leq 59.65633460 \\ +2x_1 - 1x_2 + 5x_3 + 4x_4 + 1x_5 - 1x_6 + 5x_7 + 4x_8 + 3x_9 + 3x_{10} &\leq 148.77106684 \\ -4x_1 + 5x_2 - 1x_3 - 4x_4 + 2x_5 - 4x_6 + 2x_7 - 1x_8 + 5x_9 - 1x_{10} &\leq -1.47155816 \\ -2x_1 + 3x_2 - 3x_3 + 5x_4 - 3x_5 + 1x_6 + 2x_7 - 2x_8 + 1x_9 + 2x_{10} &\leq 89.58354168 \\ &-1x_1 - 1x_2 + 4x_3 - 3x_4 + 4x_5 + 5x_6 + 5x_8 - 5x_9 - 4x_{10} \leq 46.71502462 \\ &-5x_1 + 1x_2 + 5x_3 - 4x_4 - 1x_5 - 1x_6 + 1x_7 - 4x_8 + 3x_{10} \leq -65.54381183 \end{aligned}$$

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

Student Number: 13
Student ID: 17200849

Minimise: $z = -6x_1 - 5x_2 - 3x_3 + 3x_4 + 6x_5 - 2x_6 + 5x_7 + 1x_8 - 6x_9$

Constraint Inequalities:

$$\begin{aligned} -4x_1 + 1x_2 + 4x_3 - 1x_4 - 3x_5 + 4x_6 + 3x_7 + 3x_9 - 3x_{10} &\leq 42.37117283 \\ -1x_3 + 1x_4 + 1x_5 + 5x_6 + 4x_7 + 5x_8 - 2x_9 + 4x_{10} &\leq 73.24675497 \\ -3x_2 + 4x_3 - 4x_5 - 1x_6 + 2x_7 - 3x_8 + 2x_9 + 1x_{10} &\leq 38.92796192 \\ +3x_1 + 4x_2 + 2x_3 + 1x_4 + 2x_5 + 4x_6 + 1x_7 + 2x_8 + 1x_9 - 1x_{10} &\leq 164.99043369 \\ -3x_2 + 4x_3 + 1x_4 + 2x_5 + 2x_6 + 5x_7 + 1x_8 + 4x_9 - 2x_{10} &\leq 131.91553025 \\ +2x_1 + 2x_3 + 4x_4 - 4x_5 + 5x_6 - 4x_7 + 1x_9 - 4x_{10} &\leq 65.24843987 \\ +5x_1 + 5x_2 + 1x_3 - 4x_4 + 1x_5 + 3x_6 - 3x_7 + 2x_8 + 3x_9 - 2x_{10} &\leq 126.71119990 \\ +2x_1 + 1x_2 - 4x_3 + 1x_4 + 3x_5 - 1x_6 + 3x_7 + 4x_8 + 3x_9 - 2x_{10} &\leq 80.87404561 \\ +1x_1 - 2x_2 + 3x_3 + 1x_4 - 3x_8 - 2x_9 + 3x_{10} &\leq 17.21113002 \\ -5x_1 + 3x_2 + 1x_3 - 1x_4 - 3x_5 + 1x_6 + 4x_7 - 3x_8 + 3x_9 + 5x_{10} &\leq 31.18566075 \end{aligned}$$

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

Student Number: 14
Student ID: 17202566

Minimise: $z = +3x_1 + 4x_2 - 1x_3 + 4x_4 + 1x_5 - 4x_6 - 5x_7 - 5x_8 + 3x_9$

Constraint Inequalities:

$$\begin{aligned} +1x_2 - 1x_3 - 4x_4 - 2x_5 - 4x_6 + 1x_7 - 5x_8 - 3x_9 + 3x_{10} &\leq -107.79850563 \\ +1x_1 - 2x_2 + 2x_3 + 5x_4 + 4x_5 - 4x_6 + 5x_7 + 5x_8 + 1x_9 + 1x_{10} &\leq 226.37758313 \\ -1x_2 + 1x_3 - 1x_4 + 1x_6 + 4x_8 + 1x_9 - 2x_{10} &\leq 49.79513215 \\ -5x_1 - 3x_2 + 4x_3 + 4x_4 - 2x_5 + 4x_6 + 4x_7 + 1x_8 - 5x_9 - 3x_{10} &\leq 68.96458514 \\ -1x_2 + 1x_3 + 5x_4 + 4x_5 - 4x_6 + 2x_8 - 4x_{10} &\leq 50.90053195 \\ -5x_1 + 4x_2 + 2x_3 - 2x_4 + 3x_5 + 4x_6 + 3x_7 + 4x_8 &\leq 95.13454538 \\ +3x_1 - 5x_2 + 3x_4 - 4x_5 + 4x_7 - 1x_8 + 4x_9 - 4x_{10} &\leq 78.58047512 \\ +3x_1 + 5x_2 + 1x_3 - 5x_4 + 5x_5 - 2x_6 + 3x_7 + 4x_8 - 3x_9 + 3x_{10} &\leq 142.05955751 \\ -5x_2 - 3x_3 + 4x_4 - 4x_5 + 3x_6 + 3x_7 + 5x_8 + 1x_9 - 5x_{10} &\leq 50.54928524 \\ +3x_1 - 2x_4 + 4x_6 + 4x_7 - 1x_8 - 5x_9 - 5x_{10} &\leq 47.05529792 \end{aligned}$$

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

Student Number: 15
Student ID: 17204607

Minimise: $z = +6x_1 + 5x_2 - 7x_3 - 2x_4 - 6x_5 - 5x_6 + 5x_7 - 3x_8 - 3x_9 - 1x_{10}$

Constraint Inequalities:

$$\begin{aligned} +2x_1 + 5x_2 - 4x_3 + 1x_4 - 4x_5 - 3x_6 - 2x_7 + 1x_8 + 1x_9 - 4x_{10} &\leq -166.16189545 \\ +1x_1 + 2x_2 - 3x_3 - 2x_5 - 2x_6 - 2x_7 - 4x_8 - 2x_9 - 4x_{10} &\leq -212.15550883 \\ +1x_2 - 1x_3 + 1x_4 + 1x_5 - 3x_6 - 1x_7 - 3x_8 - 2x_9 - 4x_{10} &\leq -104.83235715 \\ +2x_1 - 2x_2 + 2x_3 + 4x_4 - 1x_5 - 3x_6 - 3x_7 - 2x_9 + 5x_{10} &\leq -31.57697964 \\ +5x_1 - 5x_2 - 5x_3 + 2x_4 + 4x_5 - 2x_6 - 1x_7 - 4x_8 + 4x_9 &\leq 15.56197342 \\ +3x_1 + 5x_2 - 3x_3 + 3x_4 + 5x_5 - 2x_6 + 2x_7 + 4x_8 + 4x_9 + 1x_{10} &\leq 196.50011049 \\ +1x_1 - 3x_2 + 5x_3 - 2x_4 + 1x_5 + 2x_6 - 2x_7 + 4x_8 - 1x_{10} &\leq 92.98290016 \\ +4x_1 + 2x_2 + 5x_3 - 3x_4 + 3x_5 + 2x_6 + 5x_7 + 2x_8 + 3x_{10} &\leq 230.49648474 \\ -3x_1 + 3x_2 - 1x_3 + 3x_4 + 3x_5 - 2x_6 + 5x_7 - 2x_8 + 4x_9 + 2x_{10} &\leq 190.34676092 \\ -1x_1 + 1x_2 - 2x_3 - 5x_4 - 4x_5 - 5x_6 + 3x_7 - 2x_8 + 1x_9 + 2x_{10} &\leq -176.73219541 \end{aligned}$$

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

Student Number: 16
Student ID: 17205441

Minimise: $z = +1x_1 - 3x_2 - 5x_3 - 6x_4 - 5x_5 + 3x_6 - 7x_7 + 4x_8 - 5x_9 - 2x_{10}$

Constraint Inequalities:

$$\begin{aligned} +2x_1 - 2x_2 + 2x_3 - 5x_4 - 5x_5 - 4x_6 + 4x_9 - 1x_{10} &\leq 22.16542653 \\ +1x_2 - 2x_3 - 4x_4 + 1x_5 - 3x_6 + 4x_7 - 4x_8 - 3x_9 - 1x_{10} &\leq -89.86320563 \\ +5x_2 - 4x_3 + 1x_5 - 3x_6 - 3x_7 + 3x_8 + 2x_9 - 4x_{10} &\leq 13.10472624 \\ -1x_1 + 4x_2 + 5x_3 - 3x_4 + 5x_5 - 3x_6 + 4x_7 + 3x_8 - 3x_9 + 5x_{10} &\leq 89.87037513 \\ +4x_1 + 4x_2 + 2x_3 - 1x_4 + 4x_5 + 1x_6 - 5x_7 + 3x_8 - 4x_9 + 1x_{10} &\leq 77.80457421 \\ +3x_2 - 3x_4 + 3x_5 - 4x_6 - 4x_7 + 2x_8 - 1x_9 + 3x_{10} &\leq 21.29738891 \\ +1x_1 + 2x_2 - 4x_3 - 1x_4 - 3x_5 - 4x_6 + 2x_7 + 3x_8 + 2x_{10} &\leq 0.47198443 \\ -5x_1 + 2x_2 + 4x_3 + 4x_4 + 2x_5 - 3x_6 + 4x_7 - 5x_8 - 4x_9 + 4x_{10} &\leq -59.40050405 \\ -2x_1 + 2x_4 - 3x_5 + 2x_6 + 5x_7 + 3x_8 - 2x_9 + 4x_{10} &\leq -0.52001537 \\ -1x_2 + 2x_4 - 1x_5 + 2x_6 + 5x_7 - 4x_8 + 2x_9 - 2x_{10} &\leq 6.45761779 \end{aligned}$$

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

Student Number: 17
Student ID: 17209226

Minimise: $z = +3x_1 + 5x_2 - 5x_3 + 5x_4 - 2x_5 - 3x_6 - 7x_8 - 1x_9 - 2x_{10}$

Constraint Inequalities:

$$\begin{aligned} &+3x_1 + 4x_3 + 1x_4 + 1x_5 + 1x_6 - 3x_7 + 4x_8 - 2x_9 + 1x_{10} \leq 109.66755867 \\ &-2x_1 - 2x_2 - 1x_3 - 1x_4 + 4x_5 - 3x_6 + 1x_7 + 4x_8 + 3x_9 + 3x_{10} \leq 45.57056925 \\ &+2x_1 + 3x_2 + 3x_3 - 5x_4 + 2x_5 + 1x_6 + 3x_7 + 4x_8 - 3x_9 + 1x_{10} \leq 160.55068056 \\ &-4x_2 - 2x_3 - 1x_4 - 1x_5 - 2x_6 + 2x_7 + 2x_8 - 3x_9 + 2x_{10} \leq 27.63987872 \\ &+3x_2 + 5x_3 + 1x_5 - 3x_6 + 4x_7 + 2x_8 - 3x_9 + 5x_{10} \leq 149.53955345 \\ &+2x_1 + 3x_2 + 4x_3 + 3x_4 - 4x_5 - 3x_6 + 1x_7 + 2x_8 + 1x_9 + 2x_{10} \leq 117.23048537 \\ &-4x_2 + 4x_3 + 3x_5 + 4x_6 - 2x_8 - 3x_9 - 1x_{10} \leq 27.27763741 \\ &+1x_1 - 3x_2 + 2x_3 - 3x_4 - 4x_5 + 3x_6 - 3x_7 + 3x_9 - 4x_{10} \leq -22.34603260 \\ &+3x_1 - 2x_2 + 3x_3 + 3x_5 + 3x_6 - 1x_7 + 5x_8 + 1x_9 + 2x_{10} \leq 155.08773619 \\ &+2x_1 + 4x_4 + 5x_5 + 3x_7 - 1x_8 + 2x_9 - 3x_{10} \leq 81.27450201 \end{aligned}$$

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

Student Number: 18
Student ID: 17209293

Minimise: $z = +2x_1 - 3x_2 - 4x_3 - 4x_4 + 1x_5 - 2x_6 + 2x_7 - 2x_8 + 5x_9 + 6x_{10}$

Constraint Inequalities:

$$\begin{aligned} &+2x_2 + 2x_3 - 2x_4 + 3x_5 + 4x_6 + 2x_7 + 1x_8 - 1x_9 + 2x_{10} \leq 211.94042255 \\ &-2x_1 - 2x_2 + 2x_3 - 1x_4 + 3x_5 - 1x_6 - 2x_7 + 2x_8 - 4x_9 - 2x_{10} \leq -74.68104584 \\ &+3x_1 + 2x_2 - 1x_3 - 3x_4 - 1x_5 + 3x_6 + 5x_7 - 3x_8 + 5x_9 + 1x_{10} \leq 164.78819021 \\ &-4x_1 - 3x_2 + 3x_4 + 2x_5 - 2x_6 + 4x_8 - 1x_9 + 1x_{10} \leq -29.50853224 \\ &-3x_1 + 1x_2 + 4x_4 - 2x_5 - 3x_6 - 1x_7 - 2x_8 - 1x_9 + 4x_{10} \leq -101.20611465 \\ &+1x_1 + 1x_2 - 5x_3 + 1x_4 - 5x_5 - 2x_6 - 1x_7 + 1x_9 - 5x_{10} \leq -204.00267199 \\ &-2x_3 + 3x_4 - 5x_5 - 2x_6 - 4x_7 - 4x_9 - 1x_{10} \leq -224.50389987 \\ &+4x_1 - 2x_2 - 1x_3 + 4x_5 - 4x_6 - 1x_7 - 2x_8 - 2x_9 + 5x_{10} \leq -30.78686142 \\ &-3x_1 - 2x_2 + 4x_3 - 4x_5 - 2x_6 + 3x_7 - 5x_9 + 2x_{10} \leq -94.26864065 \\ &-4x_1 - 4x_2 - 2x_3 + 1x_4 - 2x_5 - 1x_6 + 4x_7 - 5x_8 + 2x_9 \leq -210.75063567 \end{aligned}$$

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

Student Number: 19
Student ID: 17211395

Minimise: $z = +6x_1 + 3x_2 - 4x_3 + 1x_4 - 5x_5 - 7x_6 + 4x_7 - 5x_8 + 3x_9 - 6x_{10}$

Constraint Inequalities:

$$\begin{aligned} -3x_2 - 2x_3 + 1x_4 - 3x_5 + 1x_6 + 1x_7 - 3x_8 - 3x_9 + 2x_{10} &\leq -89.08753857 \\ +3x_1 - 4x_2 - 2x_3 + 3x_4 - 2x_6 + 2x_7 + 4x_8 + 4x_9 &\leq 149.54527889 \\ +1x_2 - 3x_3 - 3x_4 - 1x_5 + 1x_6 - 5x_8 + 4x_9 + 3x_{10} &\leq 15.00430053 \\ -1x_2 + 4x_3 + 2x_4 - 1x_5 + 4x_6 - 4x_7 + 2x_8 + 2x_9 + 1x_{10} &\leq 49.46866066 \\ +2x_1 - 4x_2 + 3x_3 + 3x_4 - 2x_5 - 2x_6 + 3x_7 - 1x_8 - 4x_9 - 5x_{10} &\leq -65.78931896 \\ +2x_1 + 2x_2 + 3x_4 + 1x_5 - 2x_6 - 1x_8 - 2x_9 - 3x_{10} &\leq 29.63406367 \\ -3x_1 + 2x_2 - 2x_3 - 5x_4 + 4x_5 - 4x_6 - 2x_7 - 5x_8 + 2x_9 - 4x_{10} &\leq -171.82013265 \\ +4x_1 + 1x_2 + 2x_3 - 3x_4 - 1x_5 + 2x_6 + 2x_7 + 2x_8 + 1x_9 - 2x_{10} &\leq 86.94228626 \\ +3x_1 + 1x_2 + 3x_3 - 1x_4 - 2x_5 - 4x_6 - 4x_7 + 3x_8 - 1x_9 + 3x_{10} &\leq -79.10553338 \\ +5x_1 + 2x_2 + 5x_3 + 3x_4 + 3x_5 + 3x_6 - 2x_7 - 1x_{10} &\leq 158.22064681 \end{aligned}$$

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

Student Number: 20
Student ID: 17213037

Minimise: $z = -3x_1 + 4x_2 + 5x_3 + 3x_4 - 6x_6 + 3x_7 - 1x_8 + 5x_9 + 3x_{10}$

Constraint Inequalities:

$$\begin{aligned} +4x_1 + 2x_2 + 4x_3 + 3x_5 - 4x_6 - 2x_7 - 2x_8 - 5x_9 - 3x_{10} &\leq 3.26654803 \\ +4x_1 - 4x_2 + 4x_3 + 4x_4 + 2x_7 - 1x_8 + 3x_{10} &\leq 107.76119953 \\ +2x_1 - 1x_2 + 1x_3 - 2x_4 - 4x_5 + 2x_6 + 3x_7 + 1x_8 - 4x_9 + 2x_{10} &\leq 32.22218673 \\ +2x_1 + 2x_2 + 1x_3 - 2x_4 + 5x_5 + 1x_6 - 2x_7 + 4x_8 - 5x_9 - 3x_{10} &\leq 72.30388159 \\ +5x_1 - 2x_2 + 4x_3 - 4x_6 + 5x_8 - 1x_9 &\leq 121.87409818 \\ +2x_2 - 1x_4 + 4x_6 - 4x_7 + 3x_8 + 1x_{10} &\leq 47.89390230 \\ +3x_1 - 3x_3 - 1x_4 + 1x_5 - 3x_6 - 2x_7 + 1x_8 + 3x_9 - 5x_{10} &\leq -20.06399827 \\ -5x_2 + 2x_3 + 2x_4 - 2x_5 + 3x_6 + 3x_7 - 1x_8 + 5x_9 + 1x_{10} &\leq 53.45967143 \\ +5x_1 - 3x_2 + 3x_3 - 2x_5 + 1x_6 - 1x_7 - 4x_8 + 3x_9 - 4x_{10} &\leq -2.83649901 \\ -1x_2 + 2x_3 + 4x_4 - 3x_5 - 3x_6 + 1x_7 + 3x_8 - 5x_{10} &\leq 53.29227672 \end{aligned}$$

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

Student Number: 21
Student ID: 17213681

Minimise: $z = -1x_1 + 3x_2 - 7x_3 + 4x_4 + 3x_5 - 5x_6 - 2x_7 + 5x_8 + 2x_9 - 7x_{10}$

Constraint Inequalities:

$$\begin{aligned} &+1x_1 - 4x_2 - 2x_4 + 4x_5 - 4x_6 - 3x_8 - 3x_9 + 5x_{10} \leq -3.20727086 \\ &+4x_1 - 3x_3 - 5x_4 - 2x_5 - 2x_6 - 4x_7 - 1x_8 + 4x_9 - 3x_{10} \leq -182.67657322 \\ &-4x_1 - 2x_2 + 5x_4 - 3x_5 + 2x_6 + 1x_7 - 3x_8 - 4x_9 - 5x_{10} \leq -128.92206405 \\ &-1x_1 + 4x_2 - 2x_3 - 1x_4 + 4x_6 + 1x_7 - 2x_8 \leq -6.11069160 \\ &+3x_1 + 4x_2 + 4x_3 - 5x_4 - 2x_5 + 1x_6 - 4x_7 - 1x_8 + 1x_9 - 2x_{10} \leq -18.94298074 \\ &-4x_1 - 3x_2 + 2x_3 + 5x_4 + 5x_5 - 3x_6 + 4x_7 + 4x_8 + 3x_9 + 4x_{10} \leq 190.15807376 \\ &-1x_1 + 4x_2 - 3x_3 + 4x_4 - 2x_5 - 1x_6 + 2x_7 + 4x_8 + 3x_9 - 3x_{10} \leq 5.73591823 \\ &-3x_1 - 4x_2 + 4x_4 + 5x_5 + 4x_6 - 2x_7 + 3x_8 - 5x_9 - 2x_{10} \leq 82.82790413 \\ &+3x_1 + 2x_2 - 2x_4 + 2x_5 + 4x_6 - 4x_7 - 3x_8 - 4x_9 + 1x_{10} \leq 59.42940452 \\ &+4x_1 + 3x_3 + 4x_5 + 2x_6 - 2x_7 + 2x_8 - 5x_9 - 3x_{10} \leq 131.44895977 \end{aligned}$$

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

Student Number: 22
Student ID: 17214297

Minimise: $z = -3x_1 + 1x_2 - 7x_3 - 7x_4 - 2x_5 + 4x_6 - 7x_8 + 3x_9 + 4x_{10}$

Constraint Inequalities:

$$\begin{aligned} &-4x_1 + 1x_2 + 1x_3 - 2x_4 - 4x_5 + 3x_6 - 4x_7 - 1x_8 + 1x_9 - 1x_{10} \leq -110.30017432 \\ &-2x_1 - 5x_2 - 4x_3 - 2x_4 + 2x_5 + 2x_6 - 4x_7 + 2x_{10} \leq -201.15934243 \\ &+3x_1 + 1x_2 + 3x_3 - 2x_4 + 3x_5 + 4x_6 + 5x_7 - 5x_8 - 5x_9 - 3x_{10} \leq 77.07234204 \\ &+3x_1 + 4x_2 + 4x_3 + 2x_4 - 4x_5 - 2x_6 + 1x_7 - 5x_8 + 5x_9 - 3x_{10} \leq 194.06955816 \\ &-1x_2 - 3x_3 - 4x_4 + 1x_5 + 4x_6 - 4x_7 - 1x_8 + 2x_9 - 4x_{10} \leq -116.67296550 \\ &-2x_1 + 3x_2 + 2x_4 - 3x_5 - 2x_6 + 5x_7 + 2x_8 - 1x_9 - 1x_{10} \leq 60.87560819 \\ &-1x_2 - 4x_4 - 1x_5 - 4x_8 + 1x_{10} \leq -102.99502173 \\ &-1x_1 + 1x_2 - 4x_3 + 4x_4 + 4x_5 + 4x_7 + 4x_8 + 4x_9 + 2x_{10} \leq 195.46145405 \\ &+1x_1 - 4x_2 + 4x_3 + 1x_4 - 4x_6 + 4x_7 + 2x_8 + 2x_{10} \leq 58.48787182 \\ &-3x_1 - 3x_2 + 4x_3 + 2x_4 + 4x_5 - 2x_6 - 1x_8 + 1x_9 + 5x_{10} \leq 61.73056433 \end{aligned}$$

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

Student Number: 23
Student ID: 17214505

Minimise: $z = -6x_1 + 1x_2 + 4x_3 + 4x_4 + 4x_5 + 5x_7 - 1x_8 + 4x_9 + 2x_{10}$

Constraint Inequalities:

$$\begin{aligned} +2x_1 - 5x_2 - 5x_3 + 3x_4 + 3x_5 + 1x_6 - 1x_7 + 2x_8 - 5x_9 + 2x_{10} &\leq -45.15645793 \\ +4x_1 - 4x_2 + 3x_3 - 2x_4 + 3x_5 + 5x_6 + 1x_7 + 2x_8 + 2x_9 - 2x_{10} &\leq 139.50776802 \\ +5x_3 - 2x_4 - 4x_6 - 2x_7 + 4x_8 + 3x_9 + 4x_{10} &\leq 63.56865148 \\ +4x_1 - 1x_2 - 1x_3 - 5x_4 - 2x_5 + 1x_6 - 4x_7 - 2x_8 + 2x_9 + 2x_{10} &\leq -64.05390697 \\ -4x_1 - 3x_2 - 2x_3 - 4x_4 + 1x_5 + 5x_6 + 2x_7 + 3x_8 - 1x_9 - 1x_{10} &\leq 27.66412967 \\ -1x_1 + 3x_2 - 4x_3 + 2x_4 - 2x_5 + 2x_6 - 4x_7 + 4x_8 - 5x_9 + 1x_{10} &\leq 22.68089162 \\ -2x_1 + 3x_2 + 1x_3 + 5x_4 + 1x_5 + 2x_6 - 2x_7 - 3x_9 - 2x_{10} &\leq 32.72274642 \\ -3x_2 - 1x_3 - 1x_4 - 4x_5 + 5x_6 + 5x_7 + 3x_8 - 4x_9 &\leq 9.76768326 \\ +2x_1 + 2x_2 - 4x_3 + 5x_4 + 5x_5 + 2x_6 - 4x_7 - 3x_8 + 1x_9 + 4x_{10} &\leq 134.67946056 \\ -2x_1 - 4x_2 - 4x_4 - 1x_5 - 3x_6 - 2x_7 + 3x_8 + 4x_9 - 1x_{10} &\leq -94.86556014 \end{aligned}$$

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

Student Number: 24
Student ID: 17216389

Minimise: $z = -3x_1 + 2x_2 - 4x_4 + 4x_5 - 5x_6 + 3x_7 - 5x_8 - 4x_9 - 4x_{10}$

Constraint Inequalities:

$$\begin{aligned} -4x_1 + 3x_2 - 2x_4 + 1x_5 - 2x_6 - 2x_7 - 1x_8 + 1x_9 - 4x_{10} &\leq -119.46599009 \\ +2x_1 - 4x_2 - 3x_3 + 1x_4 + 2x_5 + 4x_6 - 4x_7 - 3x_8 - 1x_9 + 2x_{10} &\leq 30.45514868 \\ +4x_1 + 3x_2 + 3x_3 - 3x_4 - 1x_5 - 4x_6 - 1x_7 + 4x_8 + 1x_9 + 4x_{10} &\leq 115.52048897 \\ -1x_2 + 4x_3 + 5x_4 - 1x_5 + 4x_6 + 1x_7 + 1x_8 + 2x_{10} &\leq 146.30095546 \\ -4x_1 + 4x_2 - 4x_3 - 3x_4 + 2x_5 - 4x_6 - 1x_7 - 1x_8 + 2x_9 + 5x_{10} &\leq -51.39523017 \\ -4x_1 + 1x_2 - 5x_3 - 3x_4 - 4x_5 + 1x_6 - 2x_7 - 2x_8 - 1x_{10} &\leq -149.65075855 \\ -3x_1 - 2x_2 + 4x_3 - 2x_4 - 3x_5 + 2x_6 - 2x_7 - 1x_8 + 5x_9 - 2x_{10} &\leq -1.10928519 \\ +5x_1 + 1x_2 - 1x_3 - 4x_4 + 1x_5 + 5x_6 - 2x_7 - 1x_8 - 4x_9 + 4x_{10} &\leq 93.06588933 \\ +1x_1 + 5x_2 + 3x_3 - 4x_4 - 4x_5 - 3x_6 + 3x_7 + 1x_8 + 5x_9 + 3x_{10} &\leq 116.42794166 \\ -5x_1 - 4x_2 + 1x_3 - 1x_4 + 4x_5 + 5x_7 - 3x_8 - 3x_9 + 5x_{10} &\leq -125.02965204 \end{aligned}$$

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

Student Number: 25
Student ID: 17216869

Minimise: $z = -7x_2 + 3x_3 - 1x_4 - 1x_5 - 4x_6 - 6x_7 - 2x_8 + 3x_9$

Constraint Inequalities:

$$\begin{aligned} -4x_1 + 3x_2 - 1x_3 - 3x_4 + 2x_5 + 5x_6 + 1x_7 + 4x_8 + 1x_{10} &\leq 71.28898385 \\ +4x_1 - 3x_2 + 4x_4 - 3x_5 - 1x_6 + 2x_7 + 5x_8 + 5x_9 - 2x_{10} &\leq 121.44956476 \\ -5x_1 - 1x_2 + 5x_3 - 2x_4 - 2x_5 - 2x_6 + 1x_7 - 1x_8 - 2x_9 + 1x_{10} &\leq -130.32723384 \\ +2x_1 + 2x_2 + 1x_3 + 2x_4 + 4x_5 + 2x_6 - 2x_7 + 4x_8 + 2x_9 + 5x_{10} &\leq 228.42379579 \\ -3x_2 + 4x_4 + 4x_6 + 4x_7 + 5x_8 + 3x_9 - 1x_{10} &\leq 194.17573201 \\ -4x_1 + 3x_2 - 4x_4 + 4x_5 - 2x_6 - 1x_7 + 3x_8 + 4x_9 - 4x_{10} &\leq -149.44941774 \\ -1x_1 + 4x_2 + 1x_3 - 4x_4 + 3x_5 + 3x_6 - 4x_7 - 4x_8 - 1x_9 + 1x_{10} &\leq -32.66818950 \\ +3x_1 + 3x_2 + 4x_3 - 1x_4 + 4x_6 - 3x_8 + 3x_9 - 4x_{10} &\leq 87.66043187 \\ -1x_1 - 4x_2 - 1x_3 + 1x_4 - 4x_6 - 2x_7 - 1x_8 - 2x_9 - 2x_{10} &\leq -211.22204216 \\ +3x_2 + 4x_3 - 3x_4 - 4x_5 + 4x_6 - 3x_7 + 2x_8 + 3x_9 + 4x_{10} &\leq 128.20342192 \end{aligned}$$

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

Student Number: 26
Student ID: 17217466

Minimise: $z = +5x_1 + 5x_3 - 3x_4 + 1x_5 - 5x_6 + 3x_7 - 6x_8 - 3x_9 - 5x_{10}$

Constraint Inequalities:

$$\begin{aligned} +4x_1 + 5x_2 + 4x_3 + 3x_4 - 4x_5 - 4x_6 - 1x_7 + 2x_8 + 4x_9 + 2x_{10} &\leq 91.48023896 \\ -2x_1 - 5x_2 + 2x_3 - 5x_4 + 2x_5 - 4x_6 + 2x_7 + 4x_8 + 5x_9 - 1x_{10} &\leq -76.54399847 \\ -3x_1 - 4x_2 + 3x_3 + 1x_5 + 3x_6 - 4x_7 + 2x_8 + 4x_9 + 2x_{10} &\leq -4.11584140 \\ -5x_1 + 4x_3 - 1x_4 + 1x_5 - 4x_6 + 5x_7 - 5x_8 - 4x_9 - 3x_{10} &\leq -75.65829584 \\ +4x_1 + 4x_4 - 3x_5 - 2x_6 + 4x_7 + 3x_8 + 5x_9 - 1x_{10} &\leq 34.47959376 \\ +3x_1 + 4x_2 - 3x_3 + 4x_5 - 2x_6 - 2x_7 - 3x_8 + 2x_{10} &\leq 117.07530895 \\ -2x_1 - 3x_2 - 1x_3 + 4x_4 + 1x_5 + 2x_6 + 5x_7 - 1x_8 - 2x_9 - 1x_{10} &\leq -6.86687370 \\ +1x_1 - 1x_2 + 2x_3 - 5x_4 + 4x_5 + 2x_7 + 2x_8 - 1x_9 - 5x_{10} &\leq 1.38353703 \\ -1x_1 + 1x_2 - 5x_4 + 4x_5 - 1x_6 - 4x_7 + 1x_8 + 3x_{10} &\leq 47.38086396 \\ -1x_1 - 2x_2 - 2x_3 - 2x_4 - 1x_5 - 3x_6 - 2x_7 - 1x_9 + 1x_{10} &\leq -116.04135609 \end{aligned}$$

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

Student Number: 27
Student ID: 17217873

Minimise: $z = -5x_1 - 1x_2 - 2x_3 + 6x_4 + 2x_5 + 4x_6 + 3x_7 + 3x_8 - 3x_9 + 5x_{10}$

Constraint Inequalities:

$$\begin{aligned} -1x_1 + 3x_2 - 1x_3 - 1x_4 + 2x_6 + 4x_7 - 4x_8 - 2x_9 + 3x_{10} &\leq 24.33611144 \\ -5x_1 + 4x_2 - 4x_3 + 1x_4 + 4x_5 - 4x_6 + 4x_7 + 4x_8 - 5x_9 - 2x_{10} &\leq -108.14645702 \\ +1x_1 + 3x_2 - 4x_3 + 4x_4 + 4x_5 - 1x_6 - 2x_7 + 3x_9 - 4x_{10} &\leq -82.19374968 \\ -4x_1 + 4x_2 - 4x_3 + 1x_5 + 3x_7 + 2x_8 - 1x_{10} &\leq -19.73324163 \\ +1x_1 + 5x_2 + 4x_4 + 2x_5 + 4x_6 - 3x_7 + 3x_8 - 1x_{10} &\leq 83.07165236 \\ +1x_1 + 2x_2 - 2x_3 + 1x_4 - 5x_5 + 1x_6 + 1x_7 + 4x_8 + 1x_9 - 2x_{10} &\leq 21.20547348 \\ +2x_1 + 1x_2 + 3x_3 - 2x_4 + 4x_5 + 5x_6 - 1x_7 - 1x_8 - 1x_9 - 2x_{10} &\leq 96.43642041 \\ +3x_1 + 4x_2 + 1x_4 + 3x_5 - 4x_7 - 3x_8 - 1x_9 + 2x_{10} &\leq -37.44269971 \\ +3x_1 - 1x_2 + 1x_3 - 4x_5 + 3x_6 + 1x_7 + 2x_8 + 2x_9 - 4x_{10} &\leq 72.32502503 \\ -5x_1 - 4x_2 - 3x_3 - 2x_4 - 2x_5 - 2x_6 + 2x_7 + 1x_8 + 4x_9 + 3x_{10} &\leq -9.19440883 \end{aligned}$$

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

Student Number: 28
Student ID: 17219043

Minimise: $z = -6x_1 - 5x_3 + 1x_4 + 3x_5 - 3x_6 - 5x_7 + 2x_8 - 5x_9 + 4x_{10}$

Constraint Inequalities:

$$\begin{aligned} -1x_1 + 2x_2 + 4x_3 + 3x_4 + 5x_5 + 3x_6 + 3x_7 + 2x_8 - 1x_9 - 3x_{10} &\leq 194.43006773 \\ -4x_1 - 1x_2 - 3x_3 - 2x_4 + 3x_5 + 4x_6 + 3x_7 + 1x_9 - 4x_{10} &\leq 5.04978622 \\ +1x_1 + 2x_2 + 3x_3 + 2x_4 + 5x_5 - 3x_6 - 2x_7 + 4x_8 + 1x_9 - 3x_{10} &\leq 61.57061720 \\ +3x_1 + 3x_2 + 3x_3 - 4x_4 + 4x_5 + 1x_6 - 3x_7 + 1x_8 + 1x_9 + 4x_{10} &\leq 183.81495983 \\ +5x_1 - 1x_2 + 4x_3 + 3x_4 - 3x_5 - 3x_6 - 4x_7 + 3x_9 + 3x_{10} &\leq 45.21748639 \\ +3x_1 - 3x_2 - 1x_3 + 4x_4 + 3x_5 - 1x_6 - 1x_7 + 3x_8 + 1x_9 - 2x_{10} &\leq 70.37377362 \\ +4x_1 + 3x_2 + 3x_3 + 2x_4 - 4x_5 + 1x_6 - 4x_7 + 5x_8 + 1x_9 + 5x_{10} &\leq 110.97873688 \\ +5x_1 + 2x_2 + 5x_3 + 4x_4 - 3x_5 + 1x_6 + 1x_7 - 4x_8 + 2x_9 - 4x_{10} &\leq 110.01848423 \\ -2x_2 + 3x_3 + 2x_4 - 2x_5 + 1x_6 + 3x_7 + 1x_8 - 4x_9 - 4x_{10} &\leq -58.17455664 \\ -1x_1 + 4x_2 - 4x_3 - 2x_4 + 4x_5 + 4x_6 - 3x_7 - 2x_8 - 3x_9 - 2x_{10} &\leq -5.55898726 \end{aligned}$$

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

Student Number: 29
Student ID: 17220467

Minimise: $z = +4x_1 - 2x_2 - 1x_3 + 4x_4 + 1x_5 - 5x_6 + 6x_7 - 2x_8 - 2x_9 - 3x_{10}$

Constraint Inequalities:

$$\begin{aligned} -1x_1 + 3x_2 + 2x_3 - 1x_4 + 1x_5 + 4x_6 + 4x_7 + 2x_8 - 2x_9 - 1x_{10} &\leq 135.41981845 \\ -2x_1 + 3x_2 + 4x_3 - 3x_4 + 5x_5 + 3x_6 - 3x_7 - 4x_8 - 2x_9 + 3x_{10} &\leq -75.74597397 \\ -2x_1 + 3x_2 - 5x_3 - 5x_4 + 2x_6 + 2x_8 + 2x_9 + 2x_{10} &\leq -32.66870150 \\ +1x_1 + 1x_2 + 4x_3 + 4x_4 - 1x_5 - 3x_6 - 1x_8 + 3x_9 - 2x_{10} &\leq 105.25902667 \\ -1x_1 - 2x_2 + 1x_3 - 2x_4 - 1x_5 - 3x_6 - 2x_7 + 4x_8 + 1x_9 - 2x_{10} &\leq -10.19290758 \\ +3x_1 + 5x_2 - 4x_3 + 3x_4 + 4x_5 - 2x_6 - 4x_7 - 1x_8 + 2x_9 + 1x_{10} &\leq -10.91118489 \\ -3x_1 + 3x_2 + 1x_3 - 1x_4 + 4x_5 + 5x_6 + 2x_7 - 5x_8 + 3x_9 &\leq -5.05412135 \\ -2x_1 - 5x_2 - 4x_3 - 5x_4 - 4x_5 + 3x_6 + 2x_7 + 3x_8 + 4x_9 + 3x_{10} &\leq -12.25343192 \\ +4x_1 + 1x_2 - 5x_3 - 3x_4 - 3x_5 - 3x_6 - 3x_7 + 5x_8 - 5x_9 + 1x_{10} &\leq -51.09039618 \\ -2x_1 - 1x_2 + 3x_3 - 2x_4 + 2x_5 - 3x_6 + 3x_7 - 2x_8 + 1x_9 &\leq 19.15040102 \end{aligned}$$

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

Student Number: 30
Student ID: 17222931

Minimise: $z = +4x_1 - 3x_2 - 5x_3 - 6x_4 - 5x_5 - 4x_6 + 1x_7 + 3x_8 + 1x_9$

Constraint Inequalities:

$$\begin{aligned} +2x_1 - 1x_2 - 3x_3 + 4x_4 + 2x_5 + 4x_6 + 2x_7 - 3x_9 &\leq 80.96259410 \\ +1x_1 - 4x_2 + 4x_3 - 2x_4 - 2x_5 - 3x_6 - 1x_7 + 4x_9 - 1x_{10} &\leq -75.93511959 \\ -5x_1 - 3x_2 - 4x_3 - 2x_4 - 2x_6 + 1x_7 - 3x_8 - 3x_9 + 4x_{10} &\leq -153.35745781 \\ +1x_1 - 1x_2 - 2x_3 - 3x_4 - 4x_5 + 4x_7 + 1x_8 + 4x_9 + 1x_{10} &\leq -138.50199735 \\ +2x_1 - 4x_2 + 3x_3 - 4x_5 + 2x_6 + 3x_7 - 2x_8 + 5x_9 - 4x_{10} &\leq -106.22651358 \\ +3x_1 + 1x_2 - 4x_3 + 3x_4 + 2x_5 - 2x_7 - 2x_8 - 1x_9 + 5x_{10} &\leq 129.41393233 \\ -4x_1 - 3x_2 - 1x_3 - 2x_4 + 2x_5 - 4x_6 - 2x_9 &\leq -111.64695441 \\ -3x_1 - 3x_2 + 4x_3 - 2x_4 + 2x_5 + 3x_6 + 4x_7 + 3x_8 + 1x_9 + 1x_{10} &\leq 41.49928473 \\ -2x_4 - 4x_5 - 1x_6 + 2x_8 - 2x_9 - 2x_{10} &\leq -142.48180826 \\ -5x_1 + 4x_2 + 3x_3 + 2x_4 - 1x_5 - 4x_6 - 3x_7 + 2x_8 + 1x_9 - 3x_{10} &\leq 27.55757256 \end{aligned}$$

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

Student Number: 31
Student ID: 17223113

Minimise: $z = -6x_1 + 5x_2 + 1x_3 - 5x_4 - 1x_5 + 1x_6 - 7x_7 + 5x_8 + 6x_9 - 6x_{10}$

Constraint Inequalities:

$$\begin{aligned} -2x_1 + 4x_2 - 3x_3 - 3x_4 - 3x_5 - 3x_6 + 4x_8 - 4x_9 + 4x_{10} &\leq -92.36819982 \\ +1x_1 + 3x_2 - 1x_4 - 4x_5 + 5x_6 - 1x_7 - 2x_8 - 3x_{10} &\leq 14.49219639 \\ -3x_1 + 2x_2 - 1x_3 - 4x_4 - 1x_5 - 3x_6 + 3x_7 - 5x_8 - 4x_9 - 2x_{10} &\leq -220.87387639 \\ -1x_1 - 3x_2 - 1x_4 - 2x_5 - 1x_6 - 4x_7 + 1x_8 - 2x_9 - 1x_{10} &\leq -74.92578744 \\ +5x_1 + 4x_4 - 2x_5 + 2x_6 - 4x_9 + 1x_{10} &\leq 73.05050460 \\ -2x_2 + 3x_3 + 1x_4 - 1x_5 - 3x_6 - 1x_7 + 2x_8 - 5x_9 - 1x_{10} &\leq -7.26901394 \\ -5x_1 - 2x_3 + 1x_4 - 4x_5 + 4x_6 - 5x_8 - 2x_9 - 3x_{10} &\leq -155.21521588 \\ +1x_1 + 2x_3 - 2x_4 + 3x_5 + 2x_6 - 2x_7 + 5x_8 - 2x_9 - 1x_{10} &\leq 150.98665382 \\ +4x_1 - 1x_2 - 3x_3 + 3x_4 + 3x_5 - 2x_6 + 4x_7 + 1x_8 + 2x_9 + 5x_{10} &\leq 64.78450934 \\ -3x_1 - 2x_3 - 2x_4 - 5x_7 + 4x_8 + 2x_9 - 3x_{10} &\leq -50.66463207 \end{aligned}$$

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

Student Number: 32
Student ID: 17223245

Minimise: $z = -1x_1 + 1x_2 + 5x_3 - 2x_4 - 2x_5 - 1x_6 - 6x_7 + 3x_9 - 7x_{10}$

Constraint Inequalities:

$$\begin{aligned} -1x_1 + 3x_2 - 1x_3 - 4x_4 - 1x_5 + 3x_6 + 1x_7 - 1x_8 + 5x_9 + 4x_{10} &\leq 125.06528612 \\ +3x_1 - 4x_2 - 2x_4 - 3x_5 + 4x_6 + 3x_7 + 4x_8 + 3x_9 - 5x_{10} &\leq -33.72593646 \\ -3x_1 + 3x_2 + 5x_3 - 1x_4 - 4x_5 + 4x_6 + 5x_7 + 1x_8 - 1x_{10} &\leq 61.51159679 \\ +4x_1 + 3x_2 + 3x_3 + 5x_5 + 2x_7 - 1x_8 + 2x_9 - 4x_{10} &\leq 22.67057184 \\ -1x_1 - 1x_2 - 4x_3 + 5x_4 + 4x_5 - 3x_6 - 1x_7 + 2x_8 - 2x_9 - 1x_{10} &\leq 1.92298819 \\ +5x_1 + 1x_2 + 4x_3 + 3x_5 + 4x_6 + 4x_7 + 4x_8 + 4x_9 + 1x_{10} &\leq 187.33336905 \\ +4x_2 + 2x_3 + 3x_4 - 2x_5 + 4x_7 + 4x_8 - 4x_9 + 2x_{10} &\leq 94.59270402 \\ -3x_1 - 1x_2 + 1x_3 + 5x_4 - 4x_5 - 4x_6 - 5x_7 - 4x_8 - 2x_9 - 2x_{10} &\leq -62.31432982 \\ +4x_1 + 2x_2 + 4x_3 - 3x_4 + 2x_5 - 2x_6 - 1x_7 + 3x_8 - 1x_9 + 4x_{10} &\leq 35.61847226 \\ +3x_1 + 4x_2 - 3x_3 + 2x_4 + 2x_5 - 1x_6 + 3x_7 + 4x_8 + 3x_9 &\leq 145.82917490 \end{aligned}$$

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

Student Number: 33
Student ID: 17223911

Minimise: $z = -1x_1 - 6x_2 + 3x_3 + 1x_5 + 6x_6 - 7x_7 + 2x_8 + 3x_{10}$

Constraint Inequalities:

$$\begin{aligned} +3x_1 - 4x_2 - 3x_3 + 3x_4 + 5x_5 - 3x_6 + 1x_7 + 4x_8 + 2x_9 - 5x_{10} &\leq 110.84217391 \\ +4x_1 - 4x_2 + 1x_3 + 5x_4 + 3x_5 + 1x_6 + 1x_8 + 2x_9 - 1x_{10} &\leq 150.33321856 \\ +3x_1 + 4x_2 - 2x_3 + 1x_4 - 2x_5 + 4x_6 + 2x_7 + 4x_8 - 3x_9 - 2x_{10} &\leq 120.84575992 \\ +3x_2 + 4x_3 - 2x_4 + 3x_5 - 2x_6 - 3x_7 + 2x_8 + 5x_9 + 1x_{10} &\leq 119.09663604 \\ +4x_1 - 1x_2 - 4x_3 - 3x_4 + 5x_5 - 2x_7 + 1x_8 - 3x_9 + 3x_{10} &\leq 29.96081158 \\ +4x_1 - 2x_3 - 4x_4 - 5x_6 - 2x_7 - 1x_8 + 4x_9 - 1x_{10} &\leq -17.33274786 \\ -2x_1 + 5x_3 - 4x_4 + 4x_5 - 4x_6 - 1x_7 + 4x_8 + 2x_9 - 1x_{10} &\leq 71.60991244 \\ -3x_1 - 2x_2 - 4x_3 + 4x_4 + 5x_6 + 4x_8 - 1x_9 - 1x_{10} &\leq -1.23146019 \\ +1x_1 - 4x_2 + 1x_3 + 1x_4 + 4x_5 + 2x_6 - 2x_7 + 5x_8 + 2x_9 - 1x_{10} &\leq 119.60292006 \\ -5x_1 + 2x_2 + 1x_3 - 4x_4 - 5x_6 + 3x_7 + 1x_8 + 2x_9 &\leq -31.22885168 \end{aligned}$$

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

Student Number: 34
Student ID: 17224063

Minimise: $z = +5x_1 + 1x_2 - 1x_3 - 7x_4 + 4x_5 - 1x_6 + 5x_7 - 1x_8 - 6x_9 - 2x_{10}$

Constraint Inequalities:

$$\begin{aligned} -2x_1 + 1x_2 + 2x_4 + 4x_5 + 1x_6 + 4x_7 - 3x_8 - 4x_9 - 1x_{10} &\leq 98.19018641 \\ +5x_1 + 4x_2 + 3x_4 + 3x_5 - 2x_6 + 4x_7 - 5x_8 + 2x_9 - 1x_{10} &\leq 187.79350530 \\ -2x_1 + 2x_2 + 3x_3 - 4x_4 + 4x_5 + 4x_6 + 4x_7 - 4x_8 - 3x_9 + 1x_{10} &\leq 97.40410457 \\ -1x_1 + 3x_2 - 2x_3 + 2x_4 - 1x_5 - 3x_6 - 3x_7 + 3x_8 + 1x_9 &\leq -16.45700630 \\ +1x_1 - 5x_2 + 3x_3 + 1x_4 - 2x_5 + 5x_6 - 4x_7 + 1x_8 - 2x_9 - 5x_{10} &\leq -87.73298738 \\ +2x_1 - 2x_2 - 3x_3 + 1x_4 - 3x_5 + 2x_6 + 2x_7 - 5x_8 + 3x_9 &\leq -42.54984002 \\ +4x_1 + 2x_2 + 3x_4 - 2x_5 - 4x_6 + 5x_7 - 1x_8 + 3x_9 - 3x_{10} &\leq 60.70740517 \\ +5x_1 + 5x_2 - 1x_3 + 4x_4 - 4x_5 + 2x_6 - 4x_7 + 3x_9 + 1x_{10} &\leq 86.08601406 \\ -1x_1 - 3x_2 + 3x_3 + 1x_4 + 3x_5 - 1x_6 + 5x_7 - 2x_{10} &\leq 90.18548435 \\ +2x_1 - 4x_2 - 3x_3 - 4x_4 + 3x_5 + 2x_6 + 4x_7 - 4x_8 + 4x_9 + 2x_{10} &\leq 12.72808425 \end{aligned}$$

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

Student Number: 35
Student ID: 17224551

Minimise: $z = -6x_1 + 2x_2 - 2x_3 - 2x_4 + 4x_5 - 3x_6 - 2x_7 - 5x_8 + 2x_9 + 3x_{10}$

Constraint Inequalities:

$$\begin{aligned} +5x_1 + 2x_2 - 2x_3 - 2x_4 + 4x_5 + 3x_6 + 4x_7 - 1x_8 - 3x_9 + 3x_{10} &\leq 211.00467277 \\ -2x_1 + 4x_2 - 3x_3 + 4x_4 - 1x_5 - 1x_7 + 3x_8 - 4x_9 + 2x_{10} &\leq -30.62122584 \\ +5x_1 - 1x_2 - 3x_3 - 5x_4 - 4x_5 + 4x_6 + 1x_7 - 2x_9 - 3x_{10} &\leq -63.80896522 \\ -4x_3 + 1x_4 - 1x_5 + 5x_6 - 2x_8 + 3x_9 &\leq -0.83947141 \\ -5x_1 + 1x_2 + 2x_3 + 1x_4 + 3x_5 - 1x_6 + 4x_7 - 2x_8 - 4x_9 + 3x_{10} &\leq -15.65548915 \\ -4x_1 - 1x_2 - 4x_3 + 4x_4 + 5x_6 - 2x_7 + 5x_8 + 3x_9 - 2x_{10} &\leq 12.64662327 \\ -3x_2 + 3x_3 - 4x_4 + 1x_6 - 4x_7 + 1x_8 - 4x_9 + 1x_{10} &\leq -68.01427553 \\ -1x_1 - 5x_2 + 1x_3 - 3x_4 + 1x_5 - 5x_6 + 4x_7 + 4x_8 + 3x_9 - 3x_{10} &\leq -18.47405981 \\ +4x_1 - 2x_2 + 3x_3 - 4x_4 + 4x_5 + 1x_6 + 1x_7 - 1x_8 - 3x_9 - 4x_{10} &\leq 60.36451360 \\ +1x_1 + 3x_2 + 2x_3 + 1x_4 + 4x_5 + 2x_6 - 2x_7 - 4x_8 + 2x_9 + 3x_{10} &\leq 174.81059372 \end{aligned}$$

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

Student Number: 36
Student ID: 17224985

Minimise: $z = -2x_1 + 2x_2 + 2x_3 + 5x_4 - 3x_5 + 4x_6 - 2x_7 - 4x_8 - 3x_9 + 5x_{10}$

Constraint Inequalities:

$$\begin{aligned} +1x_1 + 3x_2 + 3x_3 - 2x_4 - 2x_5 + 1x_6 + 1x_7 - 2x_8 + 3x_9 - 3x_{10} &\leq 52.72538375 \\ +2x_1 + 5x_2 + 2x_4 + 3x_5 + 5x_6 - 2x_7 + 1x_8 - 3x_9 + 4x_{10} &\leq 246.68642268 \\ +3x_1 - 2x_2 + 3x_3 - 1x_5 + 5x_6 - 2x_7 + 1x_8 + 1x_9 - 5x_{10} &\leq 64.94757348 \\ -1x_1 + 2x_2 - 4x_3 - 5x_4 + 2x_5 + 4x_7 - 4x_8 + 2x_9 - 2x_{10} &\leq -77.05623437 \\ -1x_1 + 3x_2 + 5x_3 + 3x_4 - 2x_5 - 3x_6 - 4x_7 - 1x_8 - 5x_9 - 2x_{10} &\leq -90.96818433 \\ +4x_2 - 2x_3 + 3x_4 + 4x_5 + 5x_6 - 1x_7 + 1x_8 + 1x_9 + 2x_{10} &\leq 253.90947748 \\ -3x_1 - 2x_2 + 3x_3 + 2x_4 - 5x_5 - 1x_6 - 2x_7 - 3x_8 + 3x_9 - 5x_{10} &\leq -101.23856311 \\ -3x_2 - 1x_3 + 1x_4 + 5x_6 + 1x_7 - 3x_8 + 4x_9 + 1x_{10} &\leq 126.27402653 \\ -4x_1 + 1x_2 + 1x_3 + 4x_4 - 3x_5 + 4x_6 + 1x_7 - 3x_8 - 5x_9 + 2x_{10} &\leq 21.60462153 \\ -1x_1 - 4x_2 + 4x_3 + 3x_4 + 4x_6 + 5x_7 - 1x_8 - 1x_{10} &\leq 39.80289367 \end{aligned}$$

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

Student Number: 37
Student ID: 17226058

Minimise: $z = -1x_1 + 3x_2 + 5x_3 + 2x_4 - 1x_5 - 4x_6 - 2x_7 - 5x_8 + 2x_9 - 2x_{10}$

Constraint Inequalities:

$$\begin{aligned} &+2x_2 + 5x_3 + 4x_4 + 3x_5 + 4x_6 + 5x_7 + 3x_8 - 3x_9 + 5x_{10} \leq 307.60308936 \\ &+2x_1 + 2x_2 + 1x_3 + 5x_4 - 3x_5 + 4x_6 - 1x_7 - 1x_8 - 1x_9 - 3x_{10} \leq 74.85209420 \\ &+4x_1 - 4x_2 - 3x_3 - 4x_4 - 3x_5 - 3x_6 + 3x_7 + 2x_8 - 3x_9 + 3x_{10} \leq -32.08862638 \\ &\quad -3x_4 + 3x_5 - 4x_7 + 1x_8 - 3x_9 + 4x_{10} \leq 20.34183075 \\ &+3x_1 - 4x_2 - 1x_3 + 3x_4 + 5x_5 - 4x_6 - 4x_7 - 4x_8 - 5x_9 + 2x_{10} \leq -131.96874814 \\ &\quad -4x_1 + 2x_2 - 5x_3 + 2x_4 - 5x_6 - 4x_7 - 5x_8 - 4x_9 - 3x_{10} \leq -271.62374585 \\ &\quad +4x_1 - 2x_2 - 1x_4 + 4x_5 - 4x_6 + 1x_7 + 1x_8 + 1x_9 - 1x_{10} \leq -3.35037609 \\ &\quad -3x_2 + 2x_3 + 4x_4 + 2x_5 - 3x_6 + 1x_7 + 4x_8 + 1x_9 - 2x_{10} \leq 28.66227818 \\ &\quad +3x_2 + 4x_3 - 3x_4 - 4x_5 - 1x_6 - 1x_7 + 4x_8 + 2x_9 + 3x_{10} \leq 134.16833172 \\ &+2x_1 + 3x_2 - 5x_3 + 4x_4 - 2x_5 + 1x_6 + 2x_7 - 1x_8 - 2x_9 + 5x_{10} \leq 83.78186497 \end{aligned}$$

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

Student Number: 38
Student ID: 17227445

Minimise: $z = -5x_1 - 4x_2 + 3x_4 + 1x_5 - 6x_6 + 1x_7 - 4x_8 - 5x_9 - 3x_{10}$

Constraint Inequalities:

$$\begin{aligned} &+1x_2 + 2x_3 + 4x_5 - 1x_6 - 1x_7 - 4x_{10} \leq 59.54444266 \\ &-2x_1 - 4x_3 - 1x_5 + 1x_6 + 1x_7 + 5x_8 + 3x_9 + 2x_{10} \leq -17.20756604 \\ &\quad +5x_1 + 1x_2 - 2x_3 - 2x_4 + 3x_5 + 2x_7 - 1x_8 + 1x_9 \leq 77.44782397 \\ &-3x_1 + 4x_2 - 2x_3 - 4x_4 + 4x_5 + 2x_6 + 1x_7 - 1x_8 + 3x_9 - 3x_{10} \leq -17.88252731 \\ &\quad -4x_1 - 1x_2 - 2x_5 + 3x_6 - 3x_7 + 4x_8 - 3x_9 - 5x_{10} \leq -108.37147462 \\ &\quad -4x_2 - 3x_3 + 2x_4 + 3x_5 - 3x_6 + 1x_7 + 2x_8 - 4x_9 - 3x_{10} \leq -12.30185255 \\ &-3x_1 - 1x_2 - 3x_3 - 1x_4 + 3x_5 + 4x_6 - 4x_7 - 1x_8 - 4x_9 - 2x_{10} \leq -64.93475741 \\ &-1x_1 + 5x_2 + 3x_3 + 1x_4 + 4x_5 - 4x_6 + 5x_7 + 5x_8 + 3x_9 - 5x_{10} \leq 140.79152498 \\ &\quad +4x_1 - 1x_2 - 4x_3 + 2x_4 - 4x_5 - 4x_6 - 2x_7 - 5x_9 - 1x_{10} \leq -124.45372336 \\ &-1x_1 + 3x_2 + 4x_3 + 1x_4 - 1x_5 + 5x_6 + 4x_7 + 3x_8 + 2x_9 - 1x_{10} \leq 147.15197812 \end{aligned}$$

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

Student Number: 39
Student ID: 17228581

Minimise: $z = +4x_1 - 1x_2 + 4x_3 + 1x_4 - 3x_6 + 6x_7 - 6x_8 + 2x_9 - 1x_{10}$

Constraint Inequalities:

$$\begin{aligned} -4x_1 + 3x_2 - 3x_4 - 5x_5 - 1x_6 - 4x_7 - 4x_8 - 3x_9 &\leq -185.13225203 \\ +1x_1 - 2x_2 - 3x_3 + 3x_4 - 1x_5 - 3x_6 + 1x_7 - 3x_8 + 1x_9 + 1x_{10} &\leq -41.15449022 \\ +2x_1 + 1x_2 + 2x_3 + 3x_4 - 5x_6 + 2x_7 - 4x_8 - 4x_9 - 2x_{10} &\leq -112.31698749 \\ -2x_1 - 3x_2 - 5x_3 - 4x_5 + 4x_6 - 3x_7 + 3x_8 - 4x_9 - 4x_{10} &\leq -185.04999407 \\ -2x_1 + 2x_2 + 3x_3 + 2x_4 - 4x_5 - 3x_6 - 1x_7 + 3x_8 - 5x_9 + 2x_{10} &\leq -121.46538313 \\ +3x_1 + 1x_2 + 5x_3 + 4x_4 + 3x_5 + 4x_7 - 2x_8 + 4x_9 + 1x_{10} &\leq 226.78171546 \\ -4x_1 - 4x_2 - 3x_3 - 1x_4 + 3x_5 + 1x_6 - 2x_7 + 1x_{10} &\leq -95.72880862 \\ +2x_1 - 4x_2 + 1x_3 - 2x_4 + 5x_5 + 1x_6 + 4x_7 + 2x_8 - 3x_9 - 4x_{10} &\leq -25.19975727 \\ -2x_1 - 3x_2 - 3x_3 + 1x_4 + 2x_5 + 1x_6 - 3x_7 - 2x_8 + 4x_9 - 1x_{10} &\leq -20.63725085 \\ -3x_1 - 1x_2 + 2x_3 - 4x_4 - 1x_5 + 2x_6 - 4x_7 + 3x_8 + 3x_9 - 5x_{10} &\leq -54.38924056 \end{aligned}$$

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

Student Number: 40
Student ID: 17231086

Minimise: $z = -1x_1 + 2x_3 - 5x_4 - 4x_5 - 2x_6 - 3x_7 + 3x_8 - 2x_9$

Constraint Inequalities:

$$\begin{aligned} +4x_1 + 3x_2 - 3x_3 + 5x_4 - 2x_5 + 4x_6 - 3x_7 - 1x_9 - 5x_{10} &\leq 14.36255127 \\ -1x_2 - 2x_4 - 3x_5 + 5x_6 + 1x_7 + 2x_9 - 1x_{10} &\leq -67.82861825 \\ +2x_1 + 3x_2 + 2x_3 - 3x_4 - 5x_5 + 2x_7 - 3x_8 - 4x_9 - 3x_{10} &\leq -120.77965221 \\ -2x_1 + 4x_2 - 5x_3 + 2x_4 - 2x_5 + 2x_6 + 4x_7 - 2x_8 + 2x_9 + 3x_{10} &\leq 62.18605016 \\ -2x_1 + 3x_2 + 3x_3 - 4x_4 + 1x_5 + 3x_6 - 3x_8 + 2x_9 &\leq -45.66405002 \\ -2x_1 - 1x_2 - 4x_3 + 1x_4 - 4x_5 - 1x_6 - 3x_7 + 5x_8 + 1x_9 + 2x_{10} &\leq -62.63469281 \\ +1x_1 + 5x_2 + 4x_3 - 1x_4 + 2x_5 - 2x_6 + 4x_7 + 4x_8 + 2x_9 + 3x_{10} &\leq 212.87407348 \\ +2x_1 - 1x_2 - 3x_3 - 4x_4 + 5x_5 + 3x_6 + 3x_8 + 5x_9 - 4x_{10} &\leq 58.42960343 \\ +4x_1 + 4x_2 + 1x_3 - 1x_5 + 1x_6 - 2x_7 + 5x_8 + 4x_{10} &\leq 107.42287089 \\ -4x_1 + 2x_2 - 5x_3 + 1x_4 + 1x_5 + 2x_6 - 3x_7 - 2x_8 + 5x_9 + 4x_{10} &\leq -15.36895764 \end{aligned}$$

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

Student Number: 41
Student ID: 17232007

Minimise: $z = -7x_1 + 1x_2 - 1x_3 - 7x_4 + 3x_5 - 4x_6 - 1x_8 + 1x_9 + 6x_{10}$

Constraint Inequalities:

$$\begin{aligned} &+3x_1 + 5x_2 - 1x_3 + 5x_4 - 2x_6 + 3x_7 - 1x_8 - 2x_{10} \leq 141.37817279 \\ &+4x_1 + 1x_3 - 1x_4 - 4x_5 + 2x_6 + 4x_7 - 1x_8 - 2x_9 + 1x_{10} \leq 88.74077338 \\ &\quad -4x_1 - 2x_2 - 1x_3 - 5x_6 + 4x_7 + 1x_9 - 2x_{10} \leq -127.53151896 \\ &+5x_1 - 2x_2 + 4x_3 + 2x_4 + 1x_5 + 5x_6 + 4x_8 - 2x_9 - 4x_{10} \leq 184.99406627 \\ &\quad -1x_1 - 4x_2 - 4x_3 + 2x_4 + 1x_5 - 1x_7 + 1x_8 - 5x_9 - 1x_{10} \leq -92.41798554 \\ &-3x_1 + 1x_2 - 4x_3 + 4x_4 - 4x_5 - 2x_6 - 4x_7 - 3x_8 + 3x_9 - 4x_{10} \leq -264.40356867 \\ &+4x_1 + 1x_2 + 2x_3 + 4x_4 + 2x_5 - 3x_6 - 4x_7 + 5x_8 + 2x_9 + 4x_{10} \leq 255.04837265 \\ &\quad +3x_1 - 1x_2 - 4x_4 + 3x_5 + 3x_6 + 1x_7 + 1x_8 - 4x_9 - 2x_{10} \leq 48.58775969 \\ &+4x_1 + 1x_2 - 1x_3 - 5x_4 + 2x_5 + 2x_6 - 4x_7 - 2x_8 + 1x_9 - 2x_{10} \leq -55.01483416 \\ &-1x_1 + 3x_2 + 1x_3 - 3x_4 - 1x_5 - 3x_6 - 2x_7 - 1x_8 - 4x_9 + 1x_{10} \leq -98.79559188 \end{aligned}$$

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

Student Number: 42
Student ID: 17232422

Minimise: $z = -2x_1 - 4x_2 - 3x_3 - 2x_7 + 2x_8 - 1x_9 - 1x_{10}$

Constraint Inequalities:

$$\begin{aligned} &+5x_1 - 3x_3 + 5x_4 + 2x_5 + 1x_6 - 5x_7 - 3x_8 - 3x_{10} \leq 123.01932382 \\ &\quad -1x_1 + 1x_2 - 1x_3 + 4x_4 - 3x_6 + 1x_7 - 2x_8 - 4x_9 \leq -93.41373345 \\ &-1x_1 - 2x_2 + 2x_3 + 1x_4 + 2x_5 + 5x_6 + 4x_7 + 2x_8 - 1x_9 + 4x_{10} \leq 148.61136912 \\ &-4x_1 + 4x_2 + 3x_3 + 1x_4 + 4x_5 - 2x_6 + 2x_7 - 2x_8 + 1x_9 + 5x_{10} \leq 81.74763184 \\ &-3x_1 + 2x_2 + 4x_3 + 4x_4 - 3x_5 + 3x_6 - 3x_7 + 4x_8 - 5x_9 + 2x_{10} \leq 89.27689637 \\ &\quad -3x_2 - 1x_3 + 3x_5 + 1x_7 + 1x_8 + 3x_{10} \leq 3.38608578 \\ &-2x_1 + 1x_2 - 4x_3 + 1x_4 - 1x_5 + 5x_6 + 1x_7 + 5x_9 + 3x_{10} \leq 97.91533467 \\ &\quad +4x_1 + 5x_2 - 2x_3 + 2x_4 + 3x_5 + 4x_6 + 1x_8 - 2x_{10} \leq 307.24233607 \\ &\quad -3x_2 - 4x_3 + 1x_4 - 3x_5 + 3x_6 + 4x_8 - 4x_9 + 5x_{10} \leq -86.11071106 \\ &-4x_1 - 1x_2 - 4x_3 + 5x_4 + 2x_5 + 4x_6 + 4x_7 - 3x_8 + 3x_9 + 3x_{10} \leq 57.01699224 \end{aligned}$$

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

Student Number: 43
Student ID: 17232511

Minimise: $z = +3x_2 - 5x_3 + 2x_4 - 4x_5 - 5x_6 + 3x_7 - 1x_8 + 2x_{10}$

Constraint Inequalities:

$$\begin{aligned} -3x_1 - 3x_2 + 1x_3 + 4x_4 + 4x_5 - 1x_8 - 3x_9 + 2x_{10} &\leq 49.28370536 \\ -3x_2 + 5x_3 - 3x_4 + 2x_5 + 3x_7 - 1x_8 + 3x_{10} &\leq 61.06758132 \\ +4x_1 - 4x_2 + 1x_3 - 4x_4 + 4x_5 - 4x_7 + 1x_8 - 3x_9 - 2x_{10} &\leq 18.12318263 \\ -2x_1 + 1x_2 + 2x_3 + 4x_4 + 4x_5 + 3x_6 + 1x_8 - 2x_9 + 3x_{10} &\leq 150.46300668 \\ -2x_1 + 1x_2 + 4x_3 - 3x_4 - 2x_5 + 2x_6 + 2x_7 - 1x_8 - 4x_9 + 1x_{10} &\leq -70.75100752 \\ +2x_1 + 4x_2 + 4x_3 - 5x_4 - 2x_5 - 2x_6 + 5x_7 - 1x_8 + 4x_{10} &\leq 66.38385322 \\ -3x_1 + 3x_3 - 4x_4 + 2x_5 - 3x_6 + 1x_7 + 2x_9 + 4x_{10} &\leq 45.02300739 \\ +4x_1 - 4x_3 + 2x_4 + 2x_5 - 1x_6 - 4x_7 + 4x_8 + 3x_9 - 2x_{10} &\leq 116.96448368 \\ +1x_1 - 3x_2 + 2x_3 - 1x_4 - 2x_5 - 1x_6 - 2x_7 + 3x_8 - 4x_9 + 4x_{10} &\leq 44.38506196 \\ +3x_1 - 1x_2 + 1x_3 - 3x_4 - 4x_5 + 5x_6 - 4x_7 - 3x_9 + 2x_{10} &\leq -57.77765463 \end{aligned}$$

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

Student Number: 44
Student ID: 17232716

Minimise: $z = -3x_1 - 2x_3 - 2x_5 - 4x_6 - 3x_7 + 1x_9 + 2x_{10}$

Constraint Inequalities:

$$\begin{aligned} -4x_1 - 2x_2 + 3x_3 - 5x_4 + 3x_5 + 1x_6 - 3x_7 - 2x_8 + 1x_9 - 1x_{10} &\leq -124.98871819 \\ -4x_1 - 4x_2 - 2x_3 + 5x_5 + 2x_6 - 1x_7 + 3x_8 + 1x_9 + 5x_{10} &\leq -102.40211534 \\ +2x_2 - 5x_3 - 2x_4 + 2x_5 - 5x_6 - 2x_8 - 1x_9 + 3x_{10} &\leq -43.64368721 \\ +4x_1 - 4x_2 - 4x_3 + 5x_4 - 2x_5 + 4x_6 + 4x_7 - 2x_9 + 4x_{10} &\leq 112.16752257 \\ -4x_1 + 2x_2 - 2x_3 - 3x_4 + 2x_5 + 5x_6 - 4x_7 &\leq -130.92899002 \\ +2x_1 - 2x_2 + 1x_3 + 1x_4 + 1x_5 + 5x_6 + 5x_7 + 4x_8 + 3x_9 + 3x_{10} &\leq 164.68155821 \\ +3x_1 + 3x_2 + 2x_3 - 2x_4 + 4x_5 - 1x_6 - 2x_7 - 1x_8 + 1x_9 + 2x_{10} &\leq 81.31242977 \\ +2x_1 - 4x_3 - 4x_4 + 5x_5 + 2x_6 - 4x_7 - 3x_8 - 5x_9 + 2x_{10} &\leq -52.07420574 \\ +4x_1 - 4x_3 + 2x_6 + 5x_7 - 3x_8 - 4x_{10} &\leq 142.03778465 \\ +5x_1 + 1x_2 + 3x_4 + 1x_5 - 4x_6 - 3x_7 - 4x_8 &\leq 53.09785427 \end{aligned}$$

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

Student Number: 45
Student ID: 17234506

Minimise: $z = -4x_1 - 3x_2 - 7x_3 - 7x_4 - 1x_5 + 2x_6 - 4x_7 + 2x_8 + 5x_9 - 4x_{10}$

Constraint Inequalities:

$$\begin{aligned} &+2x_1 + 3x_2 - 4x_3 - 2x_4 - 4x_5 - 1x_6 - 5x_8 + 1x_9 + 3x_{10} \leq -80.52100537 \\ &+4x_1 + 1x_2 + 2x_3 + 2x_4 + 2x_5 + 4x_6 - 2x_7 - 1x_8 + 1x_9 - 2x_{10} \leq 188.50788610 \\ &\quad +1x_2 + 5x_4 + 4x_6 + 2x_7 + 4x_8 + 3x_9 + 2x_{10} \leq 222.21432097 \\ &-3x_1 + 2x_2 - 2x_3 - 3x_4 - 1x_5 - 2x_6 - 5x_7 + 5x_8 + 1x_9 - 3x_{10} \leq -183.44047208 \\ &\quad +2x_1 - 2x_2 + 3x_3 - 4x_4 - 4x_5 - 2x_7 + 1x_8 - 2x_9 - 4x_{10} \leq -45.01071008 \\ &\quad -4x_1 + 2x_2 - 1x_3 - 4x_4 - 3x_5 + 2x_6 + 3x_8 - 1x_9 - 2x_{10} \leq -67.74726201 \\ &-2x_1 - 4x_2 - 1x_3 - 3x_4 - 5x_5 - 4x_6 + 3x_7 - 4x_8 - 2x_9 - 2x_{10} \leq -220.19861086 \\ &+1x_1 + 3x_2 + 2x_3 + 2x_4 - 1x_5 + 5x_6 - 3x_7 + 3x_8 - 1x_9 - 1x_{10} \leq 119.74291153 \\ &+3x_1 - 4x_2 + 1x_3 - 4x_4 - 4x_5 + 3x_6 + 4x_7 + 4x_8 + 3x_9 + 1x_{10} \leq 202.95918629 \\ &\quad -5x_1 - 2x_2 - 1x_3 + 3x_4 + 4x_5 + 4x_6 + 1x_8 - 2x_9 - 2x_{10} \leq -36.40512997 \end{aligned}$$

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

Student Number: 46
Student ID: 17235863

Minimise: $z = -5x_1 + 1x_2 + 5x_3 + 1x_4 + 2x_5 + 6x_6 - 3x_8 + 6x_9 - 4x_{10}$

Constraint Inequalities:

$$\begin{aligned} &-1x_1 - 2x_3 + 1x_5 + 1x_6 - 2x_7 + 4x_8 - 3x_{10} \leq 21.27125569 \\ &\quad +4x_1 - 3x_2 + 4x_5 + 4x_7 + 5x_8 - 4x_9 + 5x_{10} \leq 170.74316117 \\ &\quad -5x_1 + 4x_2 + 4x_3 + 1x_4 + 1x_5 + 1x_6 + 1x_7 + 2x_8 + 1x_9 \leq 106.24837131 \\ &\quad -2x_1 + 2x_2 - 2x_3 - 3x_5 - 1x_6 + 1x_7 - 2x_8 + 5x_9 + 3x_{10} \leq -7.99681853 \\ &+3x_1 + 1x_2 + 5x_3 - 3x_4 + 2x_5 + 5x_6 + 1x_7 + 5x_8 + 1x_9 - 1x_{10} \leq 179.74330563 \\ &\quad +1x_1 - 1x_2 - 3x_3 + 2x_4 + 3x_5 + 1x_6 + 2x_7 - 4x_8 + 4x_{10} \leq 44.65158777 \\ &\quad -3x_1 - 5x_2 + 3x_4 - 3x_5 - 1x_6 + 3x_7 + 5x_8 + 5x_9 + 4x_{10} \leq 68.00319836 \\ &\quad -3x_1 - 2x_2 + 1x_3 - 2x_4 + 1x_5 + 3x_8 - 4x_9 - 2x_{10} \leq -69.81468506 \\ &-4x_1 + 4x_2 - 2x_3 - 2x_4 - 1x_5 + 1x_6 + 4x_7 - 3x_8 + 5x_9 + 4x_{10} \leq 18.75338704 \\ &\quad -5x_1 - 4x_2 - 1x_3 + 4x_4 + 3x_6 + 3x_7 + 4x_8 - 1x_{10} \leq 59.71062086 \end{aligned}$$

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

Student Number: 47
Student ID: 17236444

Minimise: $z = -6x_2 - 7x_3 - 4x_4 + 2x_5 - 3x_6 - 2x_7 - 2x_8 - 1x_9 + 6x_{10}$

Constraint Inequalities:

$$\begin{aligned} &+1x_1 - 5x_2 + 3x_3 - 1x_4 - 5x_5 + 2x_7 + 4x_8 + 4x_{10} \leq 3.22316563 \\ &+1x_1 + 2x_2 - 1x_3 - 3x_4 + 1x_5 + 3x_6 - 3x_7 + 4x_8 + 3x_9 \leq 12.37107154 \\ &-3x_1 + 2x_2 + 4x_3 - 3x_4 - 5x_6 + 1x_7 + 1x_8 - 4x_9 - 2x_{10} \leq -100.49917967 \\ &+1x_1 - 2x_3 - 5x_4 - 2x_5 - 5x_6 + 5x_7 + 1x_8 - 3x_9 + 3x_{10} \leq -7.23071584 \\ &+2x_1 + 4x_2 + 3x_3 + 4x_4 - 1x_6 + 1x_7 - 2x_8 - 2x_9 + 1x_{10} \leq 75.97350956 \\ &-1x_1 + 4x_2 - 1x_3 + 1x_4 + 4x_5 - 4x_6 + 4x_7 + 2x_8 \leq 104.42832316 \\ &+2x_1 + 1x_2 + 5x_3 + 3x_5 - 3x_6 + 4x_9 + 4x_{10} \leq 179.73370216 \\ &+1x_1 - 5x_2 + 4x_3 - 4x_5 - 3x_6 - 3x_7 - 5x_8 + 4x_9 + 3x_{10} \leq -24.86320498 \\ &+2x_1 + 4x_2 + 5x_3 + 5x_4 - 3x_5 + 1x_6 - 1x_7 + 5x_8 - 3x_9 + 3x_{10} \leq 25.79257032 \\ &-5x_2 - 4x_3 - 5x_4 + 3x_6 + 5x_7 + 5x_8 - 3x_9 - 3x_{10} \leq -18.98406534 \end{aligned}$$

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

Student Number: 48
Student ID: 17236894

Minimise: $z = -3x_1 + 5x_2 - 4x_3 - 2x_4 + 4x_5 - 6x_6 + 1x_7 - 2x_8 - 1x_9 + 4x_{10}$

Constraint Inequalities:

$$\begin{aligned} &+2x_1 + 3x_2 - 2x_3 - 2x_4 - 4x_5 + 1x_6 + 1x_7 + 5x_8 + 3x_9 + 1x_{10} \leq 171.27153593 \\ &+4x_1 - 4x_2 - 4x_3 - 2x_4 - 1x_5 - 1x_6 - 4x_7 - 1x_{10} \leq -141.25392849 \\ &-1x_2 - 3x_3 - 4x_4 + 1x_5 + 1x_6 - 2x_7 + 2x_{10} \leq -76.17755129 \\ &+3x_1 + 2x_2 + 2x_3 + 3x_4 - 4x_5 + 3x_6 - 3x_7 + 4x_8 + 3x_9 - 4x_{10} \leq 234.81691455 \\ &+4x_1 - 4x_2 + 2x_3 - 2x_4 - 3x_5 + 4x_6 - 2x_7 + 1x_8 - 3x_9 - 2x_{10} \leq -13.26463093 \\ &-2x_1 + 1x_2 + 4x_3 + 4x_4 + 4x_5 + 2x_6 - 1x_7 + 3x_8 - 2x_9 - 3x_{10} \leq 130.33621602 \\ &-1x_1 + 4x_2 + 2x_3 - 3x_4 + 3x_5 + 3x_6 - 2x_7 - 1x_8 - 5x_{10} \leq -41.28855048 \\ &-5x_1 + 2x_2 - 3x_4 + 1x_5 - 4x_7 - 1x_8 + 4x_9 - 2x_{10} \leq -78.86641864 \\ &-3x_1 + 4x_2 - 4x_3 + 3x_4 + 4x_5 + 3x_6 - 3x_7 - 3x_8 + 2x_9 \leq 33.93753701 \\ &+1x_2 + 2x_3 - 2x_4 + 5x_5 + 1x_6 - 4x_7 + 2x_9 + 4x_{10} \leq 120.62752389 \end{aligned}$$

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

Student Number: 49
Student ID: 17238137

Minimise: $z = +3x_1 + 1x_2 + 5x_3 + 4x_4 + 6x_5 - 4x_6 - 7x_7 - 6x_8 + 1x_9 - 5x_{10}$

Constraint Inequalities:

$$\begin{aligned} +4x_1 + 3x_2 + 1x_3 - 2x_4 + 2x_5 + 1x_6 + 4x_7 + 1x_8 - 4x_9 - 3x_{10} &\leq 36.77427640 \\ -5x_1 - 1x_2 + 5x_3 + 2x_5 - 5x_6 + 4x_7 + 1x_8 + 2x_9 + 5x_{10} &\leq 221.31500635 \\ +5x_1 - 1x_2 + 4x_3 - 3x_4 - 2x_5 - 4x_6 - 1x_7 + 2x_8 - 2x_{10} &\leq -30.92754610 \\ -4x_1 - 1x_2 - 3x_3 + 2x_4 + 2x_5 + 3x_6 + 5x_7 + 4x_8 &\leq 81.87192255 \\ -2x_1 - 1x_2 + 4x_3 + 2x_4 - 3x_5 - 2x_6 + 2x_7 - 3x_8 + 3x_9 + 3x_{10} &\leq 140.37102199 \\ -2x_1 + 4x_2 - 1x_3 + 3x_4 + 1x_5 + 4x_6 + 4x_7 + 4x_8 + 3x_9 - 5x_{10} &\leq 82.85144774 \\ +4x_2 + 4x_3 - 1x_4 - 3x_5 + 3x_6 - 4x_7 + 5x_8 - 1x_9 - 2x_{10} &\leq -13.24481053 \\ +2x_1 + 5x_2 - 5x_3 + 1x_4 - 4x_5 + 3x_7 - 4x_8 + 4x_9 + 4x_{10} &\leq 73.47902220 \\ +2x_1 + 2x_3 - 5x_4 + 4x_6 + 5x_7 + 5x_8 + 3x_9 - 5x_{10} &\leq 26.88342478 \\ -1x_1 - 2x_3 + 3x_4 + 2x_5 + 2x_6 + 1x_7 + 5x_8 - 1x_9 - 4x_{10} &\leq -9.00314444 \end{aligned}$$

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

Student Number: 50
Student ID: 17238854

Minimise: $z = -3x_1 + 6x_2 - 6x_3 - 6x_4 - 3x_5 - 6x_6 - 5x_7 + 3x_8 - 5x_9 - 2x_{10}$

Constraint Inequalities:

$$\begin{aligned} -2x_2 + 3x_3 - 1x_4 + 3x_5 + 5x_6 - 5x_7 - 2x_8 + 2x_9 - 4x_{10} &\leq -38.37150952 \\ -1x_1 - 1x_2 - 1x_3 + 5x_4 + 2x_5 - 5x_6 - 4x_7 + 1x_8 + 2x_9 - 1x_{10} &\leq -32.21332201 \\ -5x_1 + 3x_2 + 3x_3 + 5x_4 - 4x_5 + 3x_6 + 1x_7 + 5x_8 - 5x_9 - 1x_{10} &\leq -16.56587344 \\ -3x_1 + 2x_2 - 1x_3 - 5x_4 - 2x_7 + 3x_8 - 2x_9 &\leq -119.28344143 \\ -1x_1 + 5x_2 + 1x_3 + 2x_4 + 4x_5 - 3x_6 - 2x_9 + 3x_{10} &\leq 85.94032069 \\ -2x_1 + 1x_2 + 1x_3 + 2x_4 + 1x_5 + 4x_6 + 4x_7 + 4x_8 + 3x_9 - 3x_{10} &\leq 156.57445952 \\ -4x_1 + 1x_2 - 2x_3 + 5x_4 + 5x_5 + 1x_6 - 3x_7 - 2x_8 + 2x_9 - 4x_{10} &\leq -13.46567433 \\ +3x_1 + 1x_2 + 1x_3 - 5x_4 + 4x_5 - 1x_6 + 4x_7 - 3x_8 + 4x_9 + 4x_{10} &\leq 169.72211912 \\ +1x_1 + 4x_2 - 3x_3 - 2x_4 + 3x_5 + 2x_6 - 3x_7 + 4x_8 + 3x_9 + 4x_{10} &\leq 128.73392108 \\ -1x_1 - 2x_2 - 5x_4 + 2x_5 - 2x_6 - 4x_7 - 4x_8 + 5x_9 - 1x_{10} &\leq -98.44466879 \end{aligned}$$

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

Student Number: 51
Student ID: 17238986

Minimise: $z = -3x_1 - 3x_2 - 3x_3 - 1x_4 - 2x_5 + 3x_6 + 5x_8 + 3x_9 + 6x_{10}$

Constraint Inequalities:

$$\begin{aligned} +1x_1 + 4x_2 + 3x_3 + 2x_4 + 2x_5 + 3x_6 - 1x_7 + 2x_8 - 2x_9 + 3x_{10} &\leq 242.79980129 \\ +5x_1 + 3x_2 - 4x_3 + 5x_4 + 3x_5 - 3x_6 - 3x_7 - 1x_8 + 2x_9 &\leq 139.15653457 \\ +4x_1 + 4x_2 - 4x_3 + 4x_4 + 5x_5 + 1x_6 - 4x_7 + 1x_8 - 4x_{10} &\leq 141.76737154 \\ +3x_1 + 5x_2 - 4x_3 - 4x_4 - 4x_5 + 1x_6 + 1x_7 + 1x_8 + 1x_9 - 3x_{10} &\leq 29.45559457 \\ -2x_1 - 4x_2 + 1x_3 - 1x_4 - 1x_5 - 2x_6 + 4x_8 + 5x_9 + 4x_{10} &\leq 11.45461330 \\ -2x_1 - 3x_2 + 1x_3 - 3x_4 - 2x_5 + 2x_6 + 1x_7 - 4x_8 + 2x_9 + 2x_{10} &\leq -57.37881396 \\ -3x_1 + 4x_2 + 3x_3 - 4x_4 - 3x_5 + 4x_6 - 3x_7 + 4x_8 - 2x_9 + 4x_{10} &\leq 92.61693529 \\ +1x_1 - 1x_2 + 5x_3 - 1x_4 - 4x_5 + 2x_6 + 5x_7 + 2x_8 - 5x_9 - 2x_{10} &\leq -33.86763362 \\ -2x_1 - 1x_2 + 2x_3 - 5x_4 + 4x_5 + 3x_6 - 5x_7 + 4x_8 + 2x_9 - 4x_{10} &\leq -34.78046900 \\ +1x_1 - 1x_2 + 3x_3 - 1x_4 + 3x_5 + 4x_6 - 1x_7 + 4x_8 - 4x_9 - 1x_{10} &\leq 67.48389185 \end{aligned}$$

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

Student Number: 52
Student ID: 17239214

Minimise: $z = -5x_2 - 3x_3 + 5x_4 - 7x_6 + 1x_7 - 1x_8 + 2x_9 - 4x_{10}$

Constraint Inequalities:

$$\begin{aligned} -3x_1 - 5x_2 + 3x_3 - 2x_4 - 4x_5 + 4x_6 - 3x_7 + 1x_8 + 1x_9 - 2x_{10} &\leq -104.91565160 \\ +3x_1 + 2x_2 + 3x_3 + 4x_5 - 1x_6 + 1x_8 + 3x_9 + 5x_{10} &\leq 192.17417404 \\ -1x_1 + 4x_2 - 5x_3 + 5x_4 + 2x_5 - 1x_6 - 4x_7 - 3x_8 + 1x_9 + 3x_{10} &\leq 66.07761068 \\ +1x_1 - 5x_2 + 3x_3 + 4x_4 + 3x_5 - 3x_6 + 2x_7 - 1x_8 + 2x_9 + 3x_{10} &\leq 81.05217550 \\ -3x_1 + 4x_2 - 3x_3 + 2x_4 - 3x_5 - 2x_6 - 5x_8 - 1x_9 + 2x_{10} &\leq -14.29812743 \\ +3x_1 + 3x_2 + 5x_3 - 5x_4 + 2x_5 + 3x_6 + 3x_7 - 2x_8 + 5x_9 + 4x_{10} &\leq 205.43020173 \\ +4x_1 + 4x_3 + 4x_4 + 3x_5 + 4x_6 + 2x_7 - 2x_8 - 1x_9 + 4x_{10} &\leq 117.20587413 \\ +1x_1 + 2x_2 - 1x_3 + 2x_4 + 2x_5 - 4x_6 + 1x_7 + 3x_8 - 1x_9 &\leq 46.79534528 \\ -2x_1 + 4x_2 + 4x_4 - 2x_5 - 2x_6 + 5x_7 + 2x_8 + 4x_9 - 1x_{10} &\leq 147.49184587 \\ -2x_1 - 2x_3 + 2x_4 - 5x_5 - 3x_6 + 1x_7 + 3x_8 - 5x_9 + 2x_{10} &\leq -98.73408191 \end{aligned}$$

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

Student Number: 53
Student ID: 17239958

Minimise: $z = -3x_1 + 4x_2 + 1x_3 + 2x_4 + 5x_5 - 1x_6 - 4x_7 - 2x_9 + 5x_{10}$

Constraint Inequalities:

$$\begin{aligned} -4x_1 + 2x_2 + 4x_3 - 4x_4 - 3x_6 - 1x_7 + 4x_9 + 2x_{10} &\leq -10.75442835 \\ +4x_1 + 3x_2 + 2x_3 - 4x_4 + 4x_5 - 3x_6 + 4x_7 + 4x_{10} &\leq 238.56493167 \\ +2x_1 + 4x_2 + 1x_3 - 1x_4 - 5x_5 - 1x_6 + 3x_7 - 1x_8 + 2x_9 &\leq 30.61296348 \\ -4x_1 - 2x_2 + 4x_3 - 2x_4 + 3x_5 + 1x_7 - 1x_8 + 1x_9 - 1x_{10} &\leq 9.65306606 \\ +5x_1 - 3x_3 - 1x_4 + 2x_5 + 2x_6 + 5x_7 + 2x_8 - 2x_9 &\leq 161.30808344 \\ +1x_1 - 3x_2 + 5x_3 - 4x_4 - 2x_5 + 4x_6 + 1x_7 + 4x_8 + 2x_9 + 3x_{10} &\leq 153.72267100 \\ +4x_1 - 1x_2 - 4x_3 - 2x_5 + 4x_6 + 4x_7 - 1x_8 - 4x_9 + 2x_{10} &\leq -7.92592962 \\ -2x_1 + 3x_2 + 4x_3 + 5x_4 - 4x_6 - 2x_7 + 1x_8 + 1x_9 + 1x_{10} &\leq 134.17663987 \\ +2x_1 - 5x_2 + 3x_3 + 5x_4 - 3x_5 + 4x_6 - 1x_7 - 4x_8 + 5x_9 + 4x_{10} &\leq 167.35652416 \\ -2x_2 - 2x_3 - 5x_4 + 2x_5 + 1x_6 + 3x_7 - 3x_8 + 2x_9 + 3x_{10} &\leq -22.22477798 \end{aligned}$$

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

Student Number: 54
Student ID: 17240514

Minimise: $z = +6x_1 - 2x_2 + 1x_3 + 5x_4 - 2x_5 - 6x_6 - 6x_7 + 1x_8$

Constraint Inequalities:

$$\begin{aligned} -2x_2 + 1x_3 + 1x_4 - 1x_5 - 2x_7 + 2x_8 + 5x_9 - 3x_{10} &\leq 56.94148014 \\ -2x_1 + 3x_2 + 4x_3 + 4x_4 - 2x_5 + 3x_6 - 2x_7 + 4x_8 + 3x_9 + 1x_{10} &\leq 146.38031982 \\ -2x_1 - 2x_2 + 1x_3 + 5x_4 + 1x_5 - 4x_6 - 1x_7 - 4x_8 - 2x_9 - 5x_{10} &\leq -124.89747649 \\ +1x_1 + 4x_2 + 4x_4 + 4x_5 + 4x_6 - 3x_7 - 4x_8 - 1x_{10} &\leq 36.56393935 \\ +2x_1 + 4x_2 - 5x_4 - 5x_5 - 2x_6 + 2x_7 + 2x_8 + 4x_9 - 2x_{10} &\leq 94.76191231 \\ -5x_1 - 3x_2 - 2x_3 - 2x_4 - 2x_5 - 2x_7 - 3x_8 + 4x_9 + 2x_{10} &\leq -123.41554336 \\ +4x_2 + 1x_3 + 1x_4 - 2x_6 - 4x_7 - 3x_8 + 3x_9 + 4x_{10} &\leq 24.47993611 \\ -2x_1 - 1x_2 - 1x_4 + 5x_5 + 1x_6 + 1x_7 + 2x_8 + 1x_9 + 3x_{10} &\leq 93.43561634 \\ -1x_1 + 5x_2 - 5x_3 - 2x_4 - 5x_5 - 2x_6 + 2x_7 - 1x_8 + 5x_9 - 2x_{10} &\leq -13.68960983 \\ -3x_2 + 3x_3 - 2x_5 - 1x_6 + 4x_7 - 2x_8 + 5x_9 + 3x_{10} &\leq 176.76880604 \end{aligned}$$

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

Student Number: 55
Student ID: 17240905

Minimise: $z = -5x_1 + 3x_2 + 2x_3 + 2x_4 - 6x_5 + 2x_6 - 4x_7 + 3x_8 + 2x_9 - 1x_{10}$

Constraint Inequalities:

$$\begin{aligned} -2x_1 + 4x_2 - 2x_3 + 2x_4 - 4x_6 + 5x_7 - 4x_8 + 4x_9 - 1x_{10} &\leq 79.01439453 \\ -1x_1 + 5x_2 + 2x_3 - 5x_4 - 2x_5 + 1x_6 - 4x_7 + 4x_8 - 4x_9 - 5x_{10} &\leq -64.70994017 \\ +2x_1 - 5x_2 + 4x_3 + 2x_4 + 2x_5 - 4x_6 - 1x_7 - 2x_8 - 3x_9 + 3x_{10} &\leq -84.48483886 \\ -2x_1 - 5x_2 + 1x_3 + 3x_4 + 2x_6 - 3x_7 + 1x_8 - 1x_{10} &\leq -22.47468503 \\ -2x_1 - 1x_2 + 3x_3 + 1x_4 - 1x_5 + 5x_6 - 2x_7 - 1x_8 + 1x_9 - 2x_{10} &\leq 38.15712558 \\ -2x_1 + 2x_2 - 2x_3 - 4x_4 + 5x_5 + 5x_6 + 1x_7 - 1x_8 + 5x_9 + 2x_{10} &\leq 122.22034126 \\ -1x_1 - 1x_2 + 2x_3 + 2x_4 - 1x_5 + 4x_6 + 1x_7 - 4x_8 + 4x_9 + 1x_{10} &\leq 72.35869659 \\ +2x_1 - 2x_2 - 2x_3 + 2x_4 + 2x_5 + 4x_6 + 1x_8 - 2x_9 + 2x_{10} &\leq 74.29830494 \\ -1x_1 + 3x_2 + 4x_3 + 1x_4 + 3x_5 - 1x_6 + 5x_7 + 2x_8 - 3x_{10} &\leq 214.35528313 \\ +3x_1 - 5x_2 + 1x_4 + 1x_5 + 1x_6 - 3x_7 - 3x_8 + 4x_9 - 3x_{10} &\leq -75.93029933 \end{aligned}$$

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

Student Number: 56
Student ID: 17241162

Minimise: $z = -5x_1 + 5x_2 + 1x_3 - 6x_4 - 2x_5 - 3x_6 - 1x_7 + 4x_8 + 3x_9 - 4x_{10}$

Constraint Inequalities:

$$\begin{aligned} +4x_1 + 5x_2 - 3x_3 + 4x_4 - 2x_5 + 1x_6 - 4x_7 - 2x_8 + 3x_9 + 1x_{10} &\leq 38.06536485 \\ -3x_1 + 5x_2 + 4x_3 + 3x_4 - 3x_5 - 3x_6 - 3x_7 - 2x_8 - 2x_9 - 4x_{10} &\leq -157.47923326 \\ -5x_1 + 5x_2 + 3x_3 - 4x_4 - 1x_5 + 2x_6 - 1x_8 + 3x_9 - 2x_{10} &\leq 34.83211960 \\ -3x_1 - 4x_2 + 5x_3 - 4x_4 + 4x_5 - 4x_6 + 5x_7 + 2x_8 + 3x_9 + 4x_{10} &\leq 70.16959298 \\ +3x_1 + 3x_2 + 1x_3 + 2x_4 - 1x_5 + 1x_6 + 4x_7 - 3x_8 + 4x_9 + 4x_{10} &\leq 187.05216512 \\ +4x_1 + 2x_2 - 5x_3 - 4x_4 - 2x_5 + 1x_6 + 3x_7 - 3x_8 + 4x_9 &\leq 101.44299962 \\ +3x_1 + 5x_2 - 3x_4 + 3x_5 + 4x_7 + 4x_8 + 3x_9 + 2x_{10} &\leq 185.28988317 \\ -1x_1 + 1x_2 + 2x_3 - 2x_4 - 5x_5 - 2x_6 + 4x_7 + 4x_8 - 4x_9 + 1x_{10} &\leq -1.13235090 \\ -1x_1 + 2x_2 - 4x_3 + 1x_4 + 3x_5 - 3x_6 + 3x_7 + 2x_8 + 4x_9 - 3x_{10} &\leq -0.72332587 \\ +3x_1 + 5x_2 + 1x_3 - 1x_4 - 4x_5 - 4x_6 - 2x_7 - 3x_8 + 4x_9 - 4x_{10} &\leq -71.84553835 \end{aligned}$$

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

Student Number: 57
Student ID: 17243645

Minimise: $z = -4x_1 - 6x_2 + 6x_4 + 5x_5 - 5x_6 - 6x_7 - 2x_9$

Constraint Inequalities:

$$\begin{aligned} -4x_1 - 4x_2 + 2x_3 - 4x_4 + 5x_5 - 5x_6 + 5x_7 + 3x_9 + 4x_{10} &\leq 73.35698708 \\ +5x_1 + 2x_2 - 4x_3 + 3x_4 + 4x_5 + 2x_6 + 2x_7 + 5x_8 - 2x_9 + 1x_{10} &\leq 38.37045645 \\ -1x_1 + 4x_2 + 4x_3 + 1x_4 - 2x_5 + 3x_6 - 1x_7 - 5x_8 - 5x_9 + 4x_{10} &\leq 111.75275374 \\ -5x_2 + 1x_3 + 1x_5 - 1x_6 + 2x_7 - 5x_8 + 2x_9 - 1x_{10} &\leq 14.26016588 \\ -1x_1 - 2x_2 - 3x_3 - 2x_4 - 4x_5 + 2x_6 + 2x_7 - 2x_8 - 1x_9 - 2x_{10} &\leq -30.43613124 \\ -2x_1 + 5x_2 - 2x_4 + 4x_5 - 4x_6 + 1x_7 - 3x_8 + 4x_9 + 5x_{10} &\leq 26.48227131 \\ -3x_1 + 2x_2 + 1x_3 - 3x_4 - 2x_5 + 1x_6 - 3x_7 + 1x_8 + 5x_9 &\leq 7.26917211 \\ +2x_1 + 1x_2 - 1x_3 + 3x_4 + 3x_5 - 2x_6 + 4x_7 + 5x_8 - 1x_9 &\leq 36.44321017 \\ +2x_1 - 5x_2 + 4x_3 - 2x_4 + 3x_5 + 2x_6 + 3x_7 + 3x_8 + 2x_9 + 1x_{10} &\leq 183.36449415 \\ -1x_1 + 2x_2 - 2x_3 + 4x_5 + 4x_6 + 5x_7 - 1x_8 + 5x_9 + 1x_{10} &\leq 165.80816944 \end{aligned}$$

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

Student Number: 58
Student ID: 18095488

Minimise: $z = -6x_1 + 2x_2 - 3x_3 + 1x_4 - 5x_5 + 2x_7 - 2x_8 + 5x_9 + 1x_{10}$

Constraint Inequalities:

$$\begin{aligned} -2x_1 - 3x_2 - 3x_3 + 2x_4 - 1x_5 - 4x_6 - 1x_7 + 1x_8 + 4x_9 - 2x_{10} &\leq -49.31343421 \\ -4x_1 - 1x_2 + 4x_3 + 1x_4 + 3x_6 + 3x_7 - 5x_8 + 1x_9 - 4x_{10} &\leq 65.97578784 \\ -5x_1 + 2x_2 - 2x_3 + 3x_4 - 5x_5 + 1x_6 + 2x_7 + 4x_8 + 3x_9 - 1x_{10} &\leq 53.90481348 \\ +4x_1 + 2x_2 + 4x_3 + 2x_4 + 5x_5 + 3x_6 - 3x_7 + 3x_8 - 3x_9 + 2x_{10} &\leq 187.35349700 \\ +2x_1 - 2x_2 + 1x_3 + 4x_4 - 2x_5 + 3x_6 - 3x_7 + 4x_8 - 2x_9 - 4x_{10} &\leq 95.01512036 \\ +1x_1 - 2x_2 - 4x_3 + 2x_5 + 3x_6 + 3x_7 - 3x_8 - 1x_9 + 3x_{10} &\leq 30.43198025 \\ +4x_1 + 3x_2 + 2x_3 + 3x_4 - 3x_5 - 3x_6 - 2x_7 + 3x_9 &\leq 65.14376535 \\ +2x_1 - 5x_2 - 3x_3 - 4x_4 - 2x_5 + 3x_6 + 4x_7 - 4x_8 + 2x_9 - 5x_{10} &\leq -14.92968837 \\ -1x_1 + 4x_2 + 4x_4 - 2x_5 - 4x_6 + 3x_7 - 1x_8 + 1x_9 + 4x_{10} &\leq 11.42142647 \\ +5x_1 + 3x_2 + 5x_3 + 3x_4 - 2x_5 + 4x_6 - 3x_7 - 1x_8 - 3x_9 + 1x_{10} &\leq 121.17947038 \end{aligned}$$

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

Student Number: 59
Student ID: 18110975

Minimise: $z = -1x_1 - 4x_2 + 1x_3 + 1x_4 - 2x_5 - 5x_6 - 2x_7 + 3x_8 - 3x_{10}$

Constraint Inequalities:

$$\begin{aligned} -4x_1 - 3x_2 + 1x_3 - 5x_4 + 1x_5 + 4x_6 + 1x_7 + 5x_8 + 3x_9 - 4x_{10} &\leq -94.14136045 \\ -2x_1 - 3x_2 - 5x_3 - 1x_4 - 4x_6 + 3x_7 - 1x_8 - 5x_9 - 2x_{10} &\leq -179.54170314 \\ -2x_1 + 1x_2 + 1x_3 + 5x_4 + 3x_5 + 2x_6 + 4x_7 + 2x_8 + 1x_9 - 5x_{10} &\leq 32.36053245 \\ +1x_1 - 3x_2 + 4x_3 - 5x_4 + 2x_5 - 2x_6 - 4x_7 + 1x_{10} &\leq -4.76824802 \\ -2x_1 + 2x_2 - 4x_3 - 3x_4 - 4x_5 + 2x_6 - 1x_7 + 1x_8 + 1x_9 - 1x_{10} &\leq -125.48546075 \\ +3x_1 - 1x_2 - 2x_3 - 1x_4 + 3x_5 - 2x_6 + 4x_7 - 2x_8 - 3x_9 - 2x_{10} &\leq -64.05569701 \\ +4x_1 + 1x_2 + 1x_4 + 3x_5 - 3x_6 + 1x_7 - 2x_8 + 4x_{10} &\leq 99.36433104 \\ +3x_1 + 3x_2 - 4x_3 - 3x_4 - 4x_5 + 4x_6 + 3x_7 + 2x_8 - 2x_9 + 1x_{10} &\leq -32.96526324 \\ +4x_1 + 1x_2 - 1x_3 + 3x_5 - 3x_6 + 5x_7 - 4x_8 + 5x_9 &\leq 41.12424172 \\ -1x_1 - 1x_2 - 5x_3 - 1x_4 + 2x_5 + 1x_6 + 1x_7 - 3x_8 - 1x_{10} &\leq -130.45688407 \end{aligned}$$

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

Student Number: 60
Student ID: 18111203

Minimise: $z = +3x_1 - 6x_2 + 1x_3 - 4x_4 - 1x_5 - 5x_6 + 5x_7 - 7x_8 - 3x_9 - 7x_{10}$

Constraint Inequalities:

$$\begin{aligned} +2x_1 - 5x_2 + 4x_3 + 2x_4 - 2x_5 + 4x_6 - 1x_7 + 2x_8 - 2x_9 + 2x_{10} &\leq 125.63930487 \\ -1x_1 + 4x_2 + 2x_3 - 2x_4 + 4x_5 + 3x_6 + 1x_7 - 3x_8 + 4x_9 + 4x_{10} &\leq 123.25345832 \\ -5x_2 - 4x_3 + 1x_4 + 3x_5 - 2x_7 + 4x_8 + 4x_9 + 2x_{10} &\leq 73.71263371 \\ -1x_1 + 1x_2 + 2x_3 - 4x_6 + 5x_8 - 1x_9 + 2x_{10} &\leq 70.22775918 \\ -3x_1 - 4x_2 - 1x_3 + 3x_4 - 1x_5 + 2x_6 - 1x_7 + 1x_8 + 1x_9 + 4x_{10} &\leq 62.88640301 \\ -1x_1 - 4x_2 + 4x_3 + 4x_4 + 4x_5 + 3x_6 - 1x_7 + 2x_8 - 4x_{10} &\leq 91.46739379 \\ +4x_1 + 3x_2 + 5x_4 - 1x_6 + 3x_7 + 3x_8 &\leq 223.18507529 \\ -1x_1 - 5x_2 + 1x_3 + 3x_4 + 4x_5 + 3x_6 + 1x_7 - 3x_8 - 2x_9 + 4x_{10} &\leq 140.72763695 \\ +2x_1 - 1x_2 - 1x_3 - 2x_4 - 4x_5 + 2x_6 - 1x_7 + 4x_8 + 4x_{10} &\leq 51.79227452 \\ +3x_1 - 2x_2 - 2x_3 + 4x_4 + 5x_5 + 1x_6 - 2x_7 - 3x_8 + 5x_9 - 3x_{10} &\leq 71.13216910 \end{aligned}$$

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

Student Number: 61
Student ID: 18111211

Minimise: $z = -1x_1 + 5x_2 + 1x_3 - 6x_4 + 1x_5 - 3x_6 + 2x_7 - 2x_8 - 6x_9 + 1x_{10}$

Constraint Inequalities:

$$\begin{aligned} -1x_1 - 1x_2 - 2x_3 + 1x_4 + 3x_5 + 3x_6 - 3x_7 + 2x_8 - 1x_9 - 2x_{10} &\leq 12.67245114 \\ +1x_2 + 4x_3 + 2x_4 + 3x_5 - 3x_6 - 3x_7 + 2x_8 - 3x_9 - 2x_{10} &\leq 68.91310765 \\ -1x_1 + 4x_3 + 3x_4 - 2x_5 + 1x_8 + 4x_9 - 5x_{10} &\leq -24.91721094 \\ +5x_1 - 1x_2 - 2x_3 - 3x_4 + 3x_6 - 3x_7 + 2x_8 + 4x_{10} &\leq 81.09226039 \\ +2x_1 + 4x_2 + 4x_3 - 4x_4 + 4x_5 - 5x_6 + 3x_7 + 4x_9 + 4x_{10} &\leq 221.65908015 \\ -2x_2 - 5x_3 + 4x_4 + 2x_5 + 4x_6 + 3x_8 + 2x_9 + 4x_{10} &\leq 88.60957351 \\ +1x_1 + 2x_4 - 1x_5 + 3x_6 + 3x_7 - 2x_8 - 3x_9 + 2x_{10} &\leq 38.32924723 \\ +4x_1 + 4x_2 + 1x_4 + 2x_6 - 2x_7 - 4x_8 + 1x_9 &\leq 97.02361212 \\ +2x_1 - 3x_3 - 1x_5 + 1x_6 + 4x_7 - 1x_8 + 4x_9 - 1x_{10} &\leq 16.96121414 \\ +3x_1 + 1x_2 + 3x_3 + 2x_4 - 5x_5 - 1x_6 - 1x_7 + 1x_8 - 2x_9 - 3x_{10} &\leq -31.19562402 \end{aligned}$$

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

Student Number: 62
Student ID: 18111254

Minimise: $z = +2x_1 - 2x_2 - 4x_3 + 4x_4 - 3x_5 - 6x_6 - 6x_7 + 4x_8 - 2x_9 - 2x_{10}$

Constraint Inequalities:

$$\begin{aligned} +4x_1 + 2x_2 + 4x_3 + 2x_4 - 2x_7 + 4x_8 - 2x_{10} &\leq 180.57453991 \\ -5x_1 + 2x_2 - 2x_3 + 5x_5 + 1x_6 + 3x_7 - 2x_8 + 3x_9 + 1x_{10} &\leq 50.57904017 \\ +1x_1 - 1x_2 - 4x_3 - 4x_4 + 4x_5 + 1x_6 + 2x_7 - 3x_8 - 4x_9 - 3x_{10} &\leq -138.96449741 \\ +1x_1 - 1x_2 + 4x_3 + 4x_5 - 4x_6 - 3x_7 + 3x_9 &\leq 43.41898837 \\ -2x_1 + 1x_2 + 2x_3 - 5x_4 + 2x_5 - 1x_6 - 4x_7 - 1x_8 - 1x_9 - 5x_{10} &\leq -151.36949941 \\ +1x_1 - 2x_2 - 5x_3 - 5x_4 - 5x_5 + 4x_6 + 4x_7 - 3x_8 + 4x_{10} &\leq -155.10969484 \\ -3x_2 + 3x_3 - 5x_4 + 5x_5 - 2x_6 + 4x_7 - 3x_8 - 2x_9 - 1x_{10} &\leq -155.11209973 \\ +4x_1 - 1x_2 + 1x_3 - 4x_4 + 5x_5 + 2x_6 - 2x_7 + 4x_8 + 2x_9 - 1x_{10} &\leq 130.01196291 \\ -1x_2 - 5x_3 - 2x_4 + 4x_5 - 1x_6 - 2x_7 - 3x_8 - 3x_9 + 4x_{10} &\leq -131.10070368 \\ +2x_1 - 4x_3 + 5x_5 + 3x_6 + 2x_7 + 4x_9 - 4x_{10} &\leq 168.26650563 \end{aligned}$$

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

Student Number: 63
Student ID: 18111327

Minimise: $z = -3x_1 - 4x_2 + 2x_3 - 1x_4 + 2x_5 - 1x_6 - 2x_7 + 6x_8 - 5x_{10}$

Constraint Inequalities:

$$\begin{aligned} +1x_1 + 3x_2 + 2x_3 + 3x_4 + 3x_5 - 5x_6 + 4x_7 - 1x_8 - 4x_9 + 4x_{10} &\leq 43.53334313 \\ +3x_2 + 4x_3 + 2x_4 + 5x_5 - 3x_6 + 4x_7 + 5x_8 - 4x_9 - 3x_{10} &\leq 19.80274925 \\ +1x_1 - 3x_3 + 5x_4 - 1x_5 - 4x_6 - 4x_7 + 3x_8 + 3x_9 - 4x_{10} &\leq -126.01310901 \\ -4x_1 - 2x_2 - 1x_3 - 2x_4 + 1x_5 + 3x_6 - 1x_7 - 4x_8 + 1x_{10} &\leq -23.23068343 \\ +2x_1 + 4x_3 + 3x_4 - 2x_6 + 5x_7 + 5x_8 - 3x_9 - 3x_{10} &\leq 35.06587114 \\ -2x_1 + 3x_2 - 3x_3 - 2x_4 + 1x_5 - 5x_6 - 2x_7 + 2x_8 + 2x_9 - 2x_{10} &\leq -139.84791872 \\ -2x_1 + 3x_2 + 5x_3 + 3x_4 - 2x_5 - 3x_6 + 2x_7 - 3x_8 - 4x_{10} &\leq -55.74742316 \\ +5x_1 - 4x_3 - 4x_4 - 3x_5 + 4x_7 - 1x_8 + 4x_9 - 3x_{10} &\leq 21.32250418 \\ +3x_1 + 1x_3 - 4x_4 + 2x_5 + 4x_6 + 1x_7 + 4x_8 + 4x_9 + 2x_{10} &\leq 193.16636575 \\ -5x_1 + 1x_2 - 3x_3 - 3x_4 - 5x_5 + 2x_6 - 3x_7 + 4x_8 + 2x_9 + 2x_{10} &\leq -28.52688996 \end{aligned}$$

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

Student Number: 64
Student ID: 18111386

Minimise: $z = +1x_1 + 2x_2 + 4x_3 + 4x_5 - 3x_6 + 5x_7 + 5x_8 - 3x_9$

Constraint Inequalities:

$$\begin{aligned} +3x_1 - 2x_2 - 3x_3 + 1x_4 - 4x_5 - 3x_6 + 3x_7 + 2x_8 - 3x_9 + 3x_{10} &\leq 10.87684147 \\ -1x_1 + 5x_2 - 2x_4 + 1x_5 - 2x_7 + 1x_8 + 4x_9 + 1x_{10} &\leq 1.02593492 \\ -3x_1 - 4x_2 - 1x_3 + 4x_4 + 2x_5 + 1x_6 + 2x_7 - 5x_8 - 4x_9 - 1x_{10} &\leq -71.20847043 \\ +3x_1 + 1x_2 - 2x_3 + 5x_4 - 2x_5 - 3x_6 + 2x_7 - 1x_8 - 2x_9 + 5x_{10} &\leq 49.84771226 \\ +1x_1 + 5x_3 + 1x_4 + 3x_5 - 2x_6 + 4x_7 - 5x_8 - 3x_9 - 2x_{10} &\leq 99.16285096 \\ -1x_1 - 1x_2 + 1x_4 + 3x_5 - 1x_6 - 2x_7 - 4x_9 + 4x_{10} &\leq -24.78691590 \\ -2x_2 + 1x_3 + 4x_4 - 1x_5 - 5x_6 - 1x_7 + 4x_8 - 4x_9 - 2x_{10} &\leq 3.45769853 \\ +5x_2 - 3x_3 + 3x_4 + 1x_5 - 1x_6 - 4x_7 + 5x_8 - 4x_9 - 3x_{10} &\leq 3.14315629 \\ +2x_1 - 4x_2 + 4x_3 + 2x_4 + 1x_5 + 2x_6 + 4x_7 - 5x_8 + 2x_9 + 1x_{10} &\leq 118.29190062 \\ -1x_1 - 1x_2 - 2x_3 + 3x_4 + 4x_5 - 3x_6 + 1x_7 - 2x_8 - 2x_{10} &\leq 6.94831897 \end{aligned}$$

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

Student Number: 65
Student ID: 18111394

Minimise: $z = -5x_1 - 3x_2 + 1x_3 - 6x_4 - 4x_5 - 5x_6 - 4x_7 + 3x_8 - 5x_9 + 6x_{10}$

Constraint Inequalities:

$$\begin{aligned} &+4x_1 - 3x_2 + 4x_3 + 1x_5 - 4x_6 + 3x_7 + 1x_8 + 5x_9 - 2x_{10} \leq 11.67837892 \\ &+1x_1 - 3x_2 + 1x_3 + 1x_4 + 2x_5 - 1x_7 + 1x_8 + 3x_9 - 4x_{10} \leq 0.96858323 \\ &+4x_1 + 3x_2 - 1x_3 - 3x_4 + 1x_5 + 2x_7 + 1x_8 - 2x_9 + 1x_{10} \leq 26.29841201 \\ &-4x_1 - 3x_2 + 2x_3 + 2x_4 - 2x_5 - 3x_6 - 4x_7 + 1x_8 - 3x_9 + 1x_{10} \leq -73.74107828 \\ &-2x_1 + 4x_2 + 1x_3 + 4x_4 - 1x_5 + 2x_6 + 2x_7 + 4x_8 - 2x_9 + 3x_{10} \leq 154.47601753 \\ &+4x_1 + 1x_2 - 4x_3 - 3x_4 + 3x_5 + 1x_6 - 3x_7 - 2x_8 - 2x_9 - 2x_{10} \leq -56.08926496 \\ &-1x_1 - 1x_2 - 3x_3 - 3x_4 + 3x_5 + 1x_6 + 3x_7 - 3x_8 - 3x_9 + 4x_{10} \leq 68.47890031 \\ &-1x_1 - 1x_2 - 4x_3 - 1x_5 - 2x_7 - 1x_8 - 4x_9 - 1x_{10} \leq -90.12142120 \\ &+2x_1 + 2x_2 - 5x_3 - 3x_4 - 1x_6 + 5x_7 - 4x_9 + 4x_{10} \leq 25.30698747 \\ &-4x_1 + 1x_2 + 5x_4 - 2x_5 + 2x_6 - 4x_7 + 1x_8 + 1x_9 + 2x_{10} \leq 37.94371494 \end{aligned}$$

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

Student Number: 66
Student ID: 18111408

Minimise: $z = +3x_1 + 2x_2 - 6x_3 - 3x_4 - 1x_5 + 3x_6 + 4x_8 - 2x_9 - 2x_{10}$

Constraint Inequalities:

$$\begin{aligned} &+3x_2 + 1x_3 + 5x_4 - 3x_5 - 2x_6 + 1x_7 + 3x_8 + 2x_{10} \leq 93.85154548 \\ &-2x_1 - 4x_2 - 3x_3 - 3x_4 + 1x_5 - 3x_6 + 2x_7 + 2x_8 + 3x_9 - 4x_{10} \leq -50.86506966 \\ &-1x_1 - 3x_2 + 3x_3 - 3x_4 - 2x_5 - 3x_6 - 3x_7 + 3x_8 + 1x_9 + 4x_{10} \leq -97.03707621 \\ &+1x_1 - 2x_2 + 3x_3 + 4x_4 + 1x_5 - 1x_6 + 2x_7 - 2x_8 - 1x_9 - 4x_{10} \leq 39.17214196 \\ &-4x_1 + 3x_2 + 5x_3 - 1x_4 + 2x_5 - 4x_6 + 1x_7 + 5x_8 - 5x_9 + 1x_{10} \leq 36.03585320 \\ &+3x_1 - 3x_2 + 4x_3 - 2x_4 - 3x_5 + 2x_6 + 2x_7 - 4x_8 + 3x_{10} \leq -63.77369496 \\ &-1x_1 + 3x_2 + 4x_3 + 1x_4 - 3x_5 - 1x_6 + 1x_7 + 3x_8 - 3x_9 \leq 10.26242030 \\ &-4x_1 + 3x_2 - 3x_3 + 2x_4 + 3x_5 + 1x_6 - 4x_7 + 3x_8 + 2x_9 + 3x_{10} \leq 102.70756953 \\ &+1x_1 - 3x_2 + 2x_3 + 5x_6 - 3x_7 + 3x_8 + 5x_9 - 1x_{10} \leq 38.90187926 \\ &+1x_1 - 5x_2 + 4x_3 - 2x_5 - 1x_6 + 4x_7 - 3x_8 + 2x_9 + 5x_{10} \leq 0.40046289 \end{aligned}$$

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

Student Number: 67
Student ID: 18111424

Minimise: $z = -2x_1 + 4x_2 - 6x_3 - 6x_4 + 5x_5 - 2x_6 - 6x_7 - 3x_8 - 4x_9 + 6x_{10}$

Constraint Inequalities:

$$\begin{aligned} -2x_1 - 3x_2 + 4x_3 + 3x_4 + 4x_6 + 3x_7 - 4x_9 - 2x_{10} &\leq -16.51088740 \\ -3x_1 + 1x_2 + 4x_3 + 1x_4 - 1x_5 + 4x_6 - 5x_8 - 1x_9 - 4x_{10} &\leq -49.25817049 \\ -2x_1 + 4x_2 - 2x_3 - 2x_4 - 2x_5 - 1x_6 - 1x_7 - 5x_8 + 4x_9 + 1x_{10} &\leq -36.85949914 \\ +3x_1 + 4x_2 + 4x_3 + 3x_4 - 3x_5 - 3x_6 + 4x_7 + 2x_8 + 3x_9 - 4x_{10} &\leq 166.12109160 \\ -1x_1 - 3x_2 - 2x_4 - 4x_5 - 5x_6 - 3x_7 - 1x_8 - 1x_9 + 2x_{10} &\leq -102.47547236 \\ -1x_1 + 1x_2 - 4x_3 + 2x_4 + 2x_5 + 2x_6 + 4x_7 - 5x_8 + 3x_9 - 3x_{10} &\leq -127.16409857 \\ -3x_1 - 2x_3 + 1x_4 + 5x_5 + 4x_6 + 1x_7 - 1x_8 + 3x_9 + 4x_{10} &\leq 38.10690466 \\ -2x_2 - 4x_3 - 5x_4 - 1x_5 - 3x_6 + 5x_7 + 1x_9 + 5x_{10} &\leq -61.68296823 \\ -3x_1 + 4x_2 + 4x_3 + 4x_4 + 2x_5 - 2x_6 + 3x_7 + 5x_8 - 4x_9 + 1x_{10} &\leq 227.68927792 \\ -5x_1 - 3x_2 - 1x_3 - 3x_4 - 4x_5 - 2x_6 - 4x_7 - 4x_8 - 3x_9 - 3x_{10} &\leq -261.98784202 \end{aligned}$$

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

Student Number: 68
Student ID: 18111467

Minimise: $z = -5x_1 - 6x_2 + 2x_3 - 3x_4 - 4x_5 - 6x_6 - 2x_7 + 1x_8 + 2x_9 + 5x_{10}$

Constraint Inequalities:

$$\begin{aligned} -2x_1 - 2x_3 - 2x_4 + 2x_5 + 2x_6 - 1x_7 - 3x_8 - 4x_9 - 3x_{10} &\leq -183.42639577 \\ -2x_2 - 1x_3 - 1x_4 - 3x_5 + 2x_6 - 4x_7 + 5x_8 + 1x_9 + 5x_{10} &\leq 7.48784841 \\ -5x_1 + 3x_2 + 3x_3 - 2x_4 + 4x_5 + 1x_6 - 3x_7 + 1x_8 + 1x_9 + 4x_{10} &\leq 90.51221853 \\ +1x_1 + 3x_2 - 4x_3 + 4x_4 - 2x_5 - 2x_6 + 4x_8 + 3x_9 + 2x_{10} &\leq 168.90634060 \\ +1x_1 - 1x_2 - 2x_3 + 4x_4 + 1x_5 - 5x_6 + 1x_7 + 3x_8 + 4x_9 &\leq 100.32867732 \\ +2x_1 - 1x_2 + 2x_3 + 2x_4 + 5x_5 + 1x_6 + 3x_7 - 2x_8 - 2x_9 + 5x_{10} &\leq 194.10064884 \\ +2x_1 + 3x_3 + 2x_4 - 1x_5 + 2x_6 - 4x_7 + 2x_8 + 3x_9 + 5x_{10} &\leq 169.17190054 \\ +5x_2 - 5x_3 - 3x_4 + 2x_5 - 1x_6 + 1x_7 - 4x_8 + 4x_9 + 1x_{10} &\leq 110.33308064 \\ -1x_1 + 4x_2 + 1x_3 - 1x_4 + 1x_5 + 2x_6 - 5x_7 + 4x_9 - 4x_{10} &\leq -5.54924801 \\ -3x_1 + 2x_2 + 4x_3 - 1x_4 + 3x_5 - 4x_6 + 5x_7 + 4x_8 - 2x_9 + 2x_{10} &\leq 104.67975636 \end{aligned}$$

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

Student Number: 69
Student ID: 18111521

Minimise: $z = -2x_1 - 4x_2 + 6x_4 - 5x_5 - 7x_6 - 2x_7 + 1x_8 - 2x_9 - 5x_{10}$

Constraint Inequalities:

$$\begin{aligned} +5x_1 - 3x_2 + 4x_3 - 5x_4 + 1x_5 + 1x_6 - 2x_7 + 1x_8 - 2x_9 + 3x_{10} &\leq -48.11166538 \\ -1x_1 + 4x_2 + 4x_3 + 4x_4 - 5x_5 + 4x_6 - 1x_7 + 1x_8 + 1x_9 + 4x_{10} &\leq 182.27087185 \\ -2x_1 + 5x_2 - 1x_3 + 2x_4 + 3x_5 + 4x_6 + 3x_7 - 1x_8 - 1x_{10} &\leq 147.45636480 \\ -2x_1 + 4x_2 - 4x_3 - 3x_4 + 4x_5 + 4x_6 - 4x_7 - 2x_8 + 3x_9 - 1x_{10} &\leq 50.04439649 \\ -3x_1 - 1x_2 + 1x_3 + 2x_4 + 2x_5 - 2x_6 - 5x_7 - 1x_8 - 2x_{10} &\leq -32.73834288 \\ -4x_1 - 2x_2 - 1x_3 + 4x_4 + 5x_5 - 5x_8 - 2x_9 - 2x_{10} &\leq -45.46840390 \\ +4x_1 - 4x_2 - 3x_3 - 3x_4 + 3x_5 + 4x_6 + 2x_7 - 4x_8 - 1x_9 + 2x_{10} &\leq -82.83038298 \\ -1x_1 - 3x_2 - 2x_3 - 3x_4 + 1x_5 - 3x_6 + 5x_7 - 1x_8 - 4x_9 + 2x_{10} &\leq -167.30089590 \\ +1x_1 + 4x_2 - 4x_3 - 4x_4 - 1x_5 + 1x_6 - 2x_7 + 2x_8 + 2x_9 - 2x_{10} &\leq 9.43730093 \\ -3x_1 + 2x_2 + 3x_4 + 4x_5 - 3x_6 - 1x_7 + 5x_8 + 2x_9 + 2x_{10} &\leq 123.10851935 \end{aligned}$$

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

Student Number: 70
Student ID: 18111556

Minimise: $z = +1x_1 - 3x_2 + 1x_3 - 2x_6 + 2x_7 + 5x_8 - 5x_9 - 1x_{10}$

Constraint Inequalities:

$$\begin{aligned} +3x_1 + 3x_2 - 5x_4 - 2x_5 - 3x_6 + 1x_8 + 4x_9 &\leq 52.08255074 \\ -4x_1 - 4x_2 - 4x_3 + 5x_4 + 3x_5 + 4x_6 - 4x_7 + 5x_8 - 5x_9 + 3x_{10} &\leq -46.35330739 \\ +5x_1 + 3x_2 - 5x_3 - 1x_4 - 1x_5 - 2x_6 - 2x_7 - 5x_8 + 3x_9 - 5x_{10} &\leq -111.27005477 \\ +4x_1 - 1x_2 + 3x_3 + 3x_4 + 2x_5 + 5x_6 - 3x_7 + 3x_8 - 5x_9 + 4x_{10} &\leq 165.12859529 \\ -2x_2 + 4x_3 - 2x_4 - 1x_5 - 1x_6 + 5x_7 - 2x_8 + 4x_9 + 4x_{10} &\leq 109.09213823 \\ -4x_1 + 2x_2 + 4x_3 + 4x_4 + 4x_5 - 5x_6 - 3x_7 - 3x_8 - 1x_{10} &\leq 65.94748038 \\ -5x_1 + 2x_2 - 1x_3 - 3x_4 + 2x_5 + 4x_6 - 2x_7 - 3x_8 + 3x_9 + 3x_{10} &\leq -35.66204729 \\ -4x_1 + 2x_2 + 3x_3 - 1x_4 - 2x_5 - 2x_6 - 2x_7 + 4x_8 + 1x_9 + 4x_{10} &\leq 112.08761201 \\ -2x_1 + 3x_2 - 1x_3 + 4x_4 + 3x_5 - 2x_6 - 1x_7 - 4x_9 - 1x_{10} &\leq -5.83492612 \\ -4x_1 + 1x_2 + 5x_3 + 2x_4 + 3x_5 - 1x_6 - 4x_7 - 4x_8 - 1x_9 - 1x_{10} &\leq 9.90892982 \end{aligned}$$

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

Student Number: 71
Student ID: 18111823

Minimise: $z = -4x_1 + 1x_2 - 3x_3 - 1x_4 - 2x_5 - 5x_6 - 3x_7 + 5x_8 - 4x_{10}$

Constraint Inequalities:

$$\begin{aligned} &+4x_1 - 2x_2 + 5x_3 + 2x_4 - 3x_5 + 4x_6 + 4x_7 - 3x_9 + 4x_{10} \leq 72.44148338 \\ &-4x_1 - 1x_2 + 1x_3 + 3x_4 - 2x_5 + 1x_6 - 4x_7 + 5x_8 - 1x_9 + 1x_{10} \leq 4.74109605 \\ &-1x_1 + 5x_2 + 2x_3 + 5x_4 + 1x_5 + 2x_6 + 4x_7 - 2x_8 - 3x_9 - 3x_{10} \leq 0.04583545 \\ &-4x_1 - 3x_2 + 3x_3 + 4x_4 - 1x_5 + 1x_6 - 3x_7 - 5x_9 - 1x_{10} \leq -116.34862866 \\ &+4x_1 - 2x_3 + 1x_4 - 2x_5 + 3x_6 - 4x_7 - 3x_9 - 4x_{10} \leq -46.11391269 \\ &-4x_1 - 3x_2 + 1x_3 + 4x_4 + 3x_5 + 1x_7 + 4x_8 + 4x_9 \leq 130.76722686 \\ &-1x_2 - 3x_4 - 4x_5 - 4x_6 + 1x_7 + 1x_8 + 5x_9 \leq 26.69457266 \\ &-3x_2 + 1x_3 + 3x_4 - 2x_5 + 3x_6 + 4x_7 - 4x_8 + 4x_9 + 3x_{10} \leq 111.89470550 \\ &-1x_2 - 5x_4 + 4x_6 - 4x_7 + 4x_8 - 1x_9 - 4x_{10} \leq -31.99134519 \\ &+1x_2 + 1x_3 + 3x_4 + 4x_5 - 2x_7 + 4x_8 - 1x_9 + 3x_{10} \leq 84.40929024 \end{aligned}$$

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

Student Number: 72
Student ID: 18138659

Minimise: $z = -5x_1 + 5x_2 - 4x_3 + 4x_4 + 2x_5 + 2x_6 - 3x_7 + 6x_8 + 5x_9 - 5x_{10}$

Constraint Inequalities:

$$\begin{aligned} &-2x_1 - 4x_2 + 1x_3 - 1x_4 - 4x_5 + 3x_6 + 2x_7 + 3x_9 - 5x_{10} \leq 47.96881147 \\ &-3x_1 - 4x_2 - 3x_3 - 3x_4 + 2x_5 - 3x_6 + 5x_7 - 5x_8 + 2x_9 - 4x_{10} \leq -29.84230181 \\ &+2x_1 + 3x_3 - 4x_4 + 2x_5 + 5x_7 - 3x_8 + 5x_9 - 4x_{10} \leq 161.94801262 \\ &-1x_2 + 3x_4 - 5x_5 - 3x_6 + 2x_7 + 2x_8 - 2x_9 + 2x_{10} \leq -39.94295397 \\ &+2x_1 + 2x_2 - 3x_3 + 1x_4 + 5x_5 - 2x_6 + 1x_7 + 2x_8 + 1x_9 + 1x_{10} \leq 33.97886288 \\ &+1x_1 - 2x_2 + 4x_3 + 3x_4 - 4x_5 + 2x_6 - 1x_8 + 2x_9 + 3x_{10} \leq 99.07547133 \\ &-1x_1 + 1x_2 - 4x_3 + 4x_4 - 2x_5 + 4x_6 - 1x_9 + 5x_{10} \leq 42.37391761 \\ &-3x_1 + 4x_2 + 5x_3 - 4x_4 + 3x_5 + 5x_6 + 4x_7 - 1x_8 - 3x_9 + 2x_{10} \leq 130.87263905 \\ &-1x_1 + 2x_2 + 1x_3 + 1x_4 - 1x_5 + 1x_6 + 3x_7 - 1x_8 + 1x_9 - 1x_{10} \leq 77.96693110 \\ &-4x_1 - 2x_2 + 2x_3 + 3x_4 + 5x_5 + 4x_6 - 3x_7 + 3x_9 \leq 51.79944818 \end{aligned}$$

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

Student Number: 73
Student ID: 18138659

Minimise: $z = +3x_1 - 6x_2 - 7x_3 - 6x_4 - 5x_5 + 3x_6 + 3x_7 - 6x_8 + 3x_{10}$

Constraint Inequalities:

$$\begin{aligned} &+1x_1 - 1x_3 + 3x_4 - 1x_5 + 3x_6 + 4x_9 - 4x_{10} \leq 64.18782951 \\ &+3x_1 + 5x_2 - 2x_3 + 4x_4 - 4x_5 - 1x_6 - 5x_7 - 3x_8 + 2x_9 + 1x_{10} \leq -99.96612677 \\ &+1x_1 + 3x_2 + 2x_3 - 2x_4 - 1x_5 - 2x_6 - 4x_7 + 2x_8 - 1x_9 + 2x_{10} \leq -26.28241452 \\ &+4x_1 + 4x_2 + 2x_3 + 3x_4 + 3x_5 - 5x_6 - 3x_8 + 4x_9 \leq 37.33922167 \\ &-2x_1 + 2x_2 + 4x_3 + 4x_4 - 2x_6 - 3x_7 - 2x_9 - 5x_{10} \leq -28.79805549 \\ &-3x_1 + 3x_4 + 3x_5 + 3x_6 - 3x_7 + 1x_8 - 5x_9 - 4x_{10} \leq 22.81038700 \\ &+3x_1 - 3x_2 - 2x_3 - 1x_4 - 4x_5 + 3x_6 + 3x_7 + 3x_8 - 2x_9 \leq 59.18743013 \\ &+3x_1 + 5x_2 + 4x_3 + 1x_4 - 1x_5 - 3x_6 - 2x_7 + 1x_8 + 3x_9 + 1x_{10} \leq 69.07769669 \\ &+3x_1 + 4x_2 + 1x_3 + 2x_4 + 2x_5 + 1x_6 - 1x_7 - 4x_8 + 4x_9 + 1x_{10} \leq 73.03498916 \\ &-1x_1 - 1x_2 + 3x_3 + 4x_4 + 2x_5 - 1x_6 - 2x_7 - 3x_8 + 3x_9 + 3x_{10} \leq 19.82829064 \end{aligned}$$

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

Student Number: 74
Student ID: 18278671

Minimise: $z = -2x_1 - 2x_2 - 6x_3 - 2x_4 - 2x_5 + 5x_7 - 5x_9 - 3x_{10}$

Constraint Inequalities:

$$\begin{aligned} &+1x_1 + 2x_2 + 4x_4 - 4x_5 + 1x_6 + 3x_7 + 1x_8 + 1x_9 + 4x_{10} \leq 145.44417557 \\ &-4x_1 - 1x_2 - 2x_4 + 2x_5 - 2x_6 + 4x_7 - 1x_8 + 4x_9 + 3x_{10} \leq 29.41386644 \\ &+4x_2 - 5x_3 + 2x_4 - 4x_5 - 3x_6 - 4x_7 - 1x_8 - 2x_9 + 1x_{10} \leq -157.27798961 \\ &+4x_1 - 1x_2 + 5x_3 + 1x_4 + 1x_5 - 4x_6 - 3x_8 - 3x_9 + 2x_{10} \leq 63.06783075 \\ &-4x_1 + 3x_2 - 1x_3 + 4x_4 - 2x_6 - 3x_7 + 2x_8 - 5x_9 - 1x_{10} \leq -118.71950805 \\ &+1x_1 + 4x_2 - 2x_3 - 4x_4 - 5x_5 + 1x_6 + 1x_7 - 3x_8 - 5x_9 + 5x_{10} \leq -149.06038668 \\ &-1x_1 - 3x_2 + 2x_3 - 1x_4 + 5x_5 - 3x_6 + 4x_7 - 4x_8 + 4x_9 - 1x_{10} \leq 92.29819042 \\ &+1x_1 + 4x_2 - 2x_3 - 1x_4 - 1x_5 + 4x_6 - 2x_7 - 2x_9 + 2x_{10} \leq -24.46932291 \\ &+2x_1 - 5x_2 - 1x_3 - 1x_4 + 3x_5 + 5x_6 + 4x_7 + 5x_8 - 2x_9 - 1x_{10} \leq 19.65552204 \\ &+2x_1 + 4x_3 + 1x_4 + 2x_5 - 2x_6 + 2x_7 - 1x_8 + 5x_9 + 3x_{10} \leq 242.24040461 \end{aligned}$$

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

Student Number: 75

Student ID: 611972

Minimise: $z = -4x_1 + 4x_2 - 4x_3 - 4x_4 - 7x_5 + 1x_6 + 5x_7 - 4x_8 - 5x_9 - 3x_{10}$

Constraint Inequalities:

$$\begin{aligned} &+4x_1 + 3x_2 + 3x_3 + 1x_4 + 3x_5 + 1x_7 - 2x_8 - 1x_{10} \leq 163.39172895 \\ &-3x_1 + 3x_2 + 1x_3 - 3x_4 - 5x_5 - 5x_6 + 5x_8 - 4x_9 - 3x_{10} \leq -95.47429760 \\ &+1x_1 - 3x_2 + 4x_3 + 3x_4 + 4x_5 + 3x_7 - 1x_8 - 5x_9 - 3x_{10} \leq 99.09383320 \\ &-2x_1 - 5x_3 - 1x_4 + 4x_5 + 3x_6 + 3x_7 + 3x_8 + 3x_9 \leq 31.09686211 \\ &-2x_1 - 2x_2 + 1x_3 - 1x_4 - 1x_5 + 4x_6 - 4x_7 + 4x_8 - 3x_9 + 4x_{10} \leq 0.48938781 \\ &-1x_1 - 2x_2 - 4x_3 - 4x_4 - 1x_5 - 4x_6 - 2x_7 + 3x_9 + 5x_{10} \leq -202.58362106 \\ &+2x_1 - 3x_2 - 4x_3 + 3x_4 - 1x_5 - 4x_6 + 4x_7 - 1x_8 - 3x_9 + 4x_{10} \leq -33.96514765 \\ &-2x_1 - 3x_4 + 3x_5 - 1x_6 + 3x_7 + 3x_8 + 4x_9 + 1x_{10} \leq 43.11857520 \\ &+1x_4 - 2x_5 - 2x_6 - 4x_7 + 1x_8 - 4x_9 + 5x_{10} \leq -36.97343034 \\ &+1x_1 - 2x_2 - 3x_3 - 3x_4 - 3x_5 - 1x_6 + 3x_7 + 4x_8 - 3x_9 \leq -75.96442022 \end{aligned}$$

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