

Student Number: 1
Student ID: 15169448

Minimise: $z = +6x_2 - 1x_3 - 1x_4 - 4x_5 - 4x_6$

Constraint Equations:

$$\begin{aligned}+3x_1 + 3x_3 + 4x_4 - 1x_6 + 1x_7 &= 121.01590892 \\+5x_1 - 1x_3 + 5x_4 + 4x_5 - 2x_6 + 1x_8 &= 137.12267060 \\-3x_1 + 2x_2 + 3x_3 + 4x_4 - 4x_5 + 2x_6 + 1x_9 &= 48.04877605 \\+3x_1 + 2x_2 - 3x_3 - 5x_4 + 5x_5 - 5x_6 + 1x_{10} &= -68.74375564 \\+1x_1 - 2x_2 - 4x_3 + 4x_5 - 1x_6 + 1x_{11} &= -23.54594429 \\-1x_1 - 4x_2 + 4x_3 + 5x_4 + 1x_5 + 4x_6 + 1x_{12} &= 147.84101019\end{aligned}$$

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

Student Number: 2
Student ID: 15173208

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: 3
Student ID: 15176312

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: 4
Student ID: 15150739

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

Constraint Equations:

$$\begin{aligned} +1x_1 - 2x_2 - 3x_3 + 3x_4 - 2x_5 - 4x_6 + 1x_7 &= -50.37428659 \\ +1x_1 - 4x_2 - 3x_3 + 3x_4 - 2x_5 - 3x_6 + 1x_8 &= -64.30197749 \\ -1x_1 - 2x_2 - 2x_4 + 4x_5 + 2x_6 + 1x_9 &= 21.53777456 \\ +4x_1 - 3x_2 + 1x_3 - 2x_4 - 1x_5 + 1x_6 + 1x_{10} &= 14.35914962 \\ +1x_1 - 2x_2 - 3x_3 - 3x_4 - 1x_5 - 3x_6 + 1x_{11} &= -108.58869846 \\ +1x_1 + 3x_2 + 1x_3 - 1x_4 + 1x_5 + 3x_6 + 1x_{12} &= 87.29032187 \end{aligned}$$

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

Student Number: 5
Student ID: 15180123

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

Constraint Equations:

$$\begin{aligned} +1x_1 + 3x_2 + 3x_3 + 1x_4 + 4x_5 - 2x_6 + 1x_7 &= 123.24985201 \\ -1x_1 - 1x_2 + 3x_3 + 3x_4 - 2x_5 + 2x_6 + 1x_8 &= 64.06382643 \\ +1x_1 + 2x_2 + 2x_3 + 5x_4 - 3x_5 + 3x_6 + 1x_9 &= 130.24670629 \\ +2x_1 + 4x_2 + 3x_4 + 2x_6 + 1x_{10} &= 127.68957411 \\ -2x_1 - 2x_2 - 1x_3 + 4x_4 - 5x_5 + 2x_6 + 1x_{11} &= -29.17377890 \\ -5x_1 + 5x_2 + 3x_3 + 3x_5 - 3x_6 + 1x_{12} &= 113.79604113 \end{aligned}$$

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

Student Number: 6
Student ID: 15149277

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

Constraint Equations:

$$\begin{aligned} -1x_1 - 1x_2 + 5x_3 + 2x_4 + 5x_5 + 1x_6 + 1x_7 &= 118.24506809 \\ +4x_1 + 4x_2 - 4x_3 - 4x_4 - 1x_5 - 2x_6 + 1x_8 &= 0.64788017 \\ -4x_1 - 4x_3 + 2x_4 - 2x_5 + 2x_6 + 1x_9 &= -121.51896677 \\ -1x_1 + 3x_2 + 2x_3 + 1x_4 - 5x_5 - 4x_6 + 1x_{10} &= -67.56007422 \\ -3x_1 - 1x_2 + 4x_3 - 5x_4 - 3x_5 + 4x_6 + 1x_{11} &= -26.34762962 \\ -3x_1 - 4x_3 + 3x_4 + 1x_5 - 4x_6 + 1x_{12} &= -105.12205626 \end{aligned}$$

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

Student Number: 7
Student ID: 15165604

Minimise: $z = -1x_1 - 2x_3 - 7x_4 + 2x_5 + 2x_6$

Constraint Equations:

$$\begin{aligned} +3x_1 - 4x_2 - 3x_3 + 1x_4 + 2x_5 + 1x_6 + 1x_7 &= -9.02059285 \\ -1x_1 + 1x_2 + 2x_3 + 5x_4 + 5x_5 - 4x_6 + 1x_8 &= 69.72084951 \\ +5x_1 - 2x_2 - 4x_3 - 3x_4 - 5x_5 + 1x_6 + 1x_9 &= -33.53156357 \\ +1x_1 + 1x_2 + 1x_4 - 4x_5 + 4x_6 + 1x_{10} &= 58.41338054 \\ -1x_1 - 5x_2 + 2x_3 + 2x_4 + 1x_5 - 4x_6 + 1x_{11} &= -46.59231361 \\ -3x_1 + 4x_2 + 4x_4 - 2x_5 - 1x_6 + 1x_{12} &= 68.19931848 \end{aligned}$$

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

Student Number: 8
Student ID: 15182932

Minimise: $z = +1x_1 + 2x_2 - 7x_3 + 4x_4 - 5x_5 - 4x_6$

Constraint Equations:

$$\begin{aligned} -2x_1 + 1x_2 + 2x_3 - 4x_4 + 3x_5 + 1x_7 &= 51.99098594 \\ +3x_1 - 2x_2 - 2x_3 + 3x_5 + 5x_6 + 1x_8 &= 66.03103943 \\ -4x_1 + 3x_2 + 4x_3 + 2x_4 + 4x_5 - 4x_6 + 1x_9 &= 77.69025916 \\ -4x_1 + 4x_2 - 4x_3 + 1x_4 - 2x_6 + 1x_{10} &= -26.44306912 \\ -2x_1 + 1x_2 + 3x_3 + 3x_4 + 1x_5 - 5x_6 + 1x_{11} &= 13.36439892 \\ +3x_1 + 1x_2 - 2x_3 - 3x_4 - 2x_5 + 3x_6 + 1x_{12} &= 18.64591483 \end{aligned}$$

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

Student Number: 9
Student ID: 15171604

Minimise: $z = -7x_1 + 5x_2 - 5x_4 - 2x_5 - 3x_6$

Constraint Equations:

$$\begin{aligned} +2x_1 - 1x_2 + 1x_3 + 2x_4 + 2x_5 - 5x_6 + 1x_7 &= 54.65403219 \\ +4x_1 - 2x_2 + 3x_3 + 3x_4 + 3x_5 + 2x_6 + 1x_8 &= 210.50813731 \\ +2x_1 + 4x_2 - 4x_3 + 1x_5 - 4x_6 + 1x_9 &= 14.66227052 \\ +4x_2 - 3x_4 - 1x_5 - 3x_6 + 1x_{10} &= -51.89831946 \\ +1x_1 + 3x_3 + 4x_4 + 1x_5 + 2x_6 + 1x_{11} &= 161.69483047 \\ -1x_2 + 2x_3 + 1x_4 + 2x_5 - 1x_6 + 1x_{12} &= 50.60963699 \end{aligned}$$

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

Student Number: 10
Student ID: 15146014

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

Constraint Equations:

$$\begin{aligned} -1x_1 - 1x_2 + 5x_4 + 2x_5 - 1x_6 + 1x_7 &= -8.31396723 \\ +4x_1 + 2x_2 + 5x_3 + 2x_4 - 1x_5 + 1x_6 + 1x_8 &= 92.40594645 \\ +4x_1 - 2x_2 - 3x_3 + 2x_4 - 2x_5 + 2x_6 + 1x_9 &= 45.98977360 \\ +1x_1 - 4x_2 - 5x_3 - 4x_4 + 5x_5 - 1x_6 + 1x_{10} &= -12.03204572 \\ -1x_3 + 3x_5 + 1x_6 + 1x_{11} &= 35.07298903 \\ +3x_1 - 5x_2 - 1x_3 + 4x_4 - 2x_5 + 5x_6 + 1x_{12} &= 93.31980783 \end{aligned}$$

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

Student Number: 11
Student ID: 15173704

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

Constraint Equations:

$$\begin{aligned} +3x_1 + 3x_2 + 4x_3 + 2x_5 - 5x_6 + 1x_7 &= 143.56050429 \\ +4x_1 + 1x_2 - 1x_3 + 2x_4 + 4x_5 + 1x_6 + 1x_8 &= 95.05943264 \\ -3x_1 - 2x_2 + 3x_3 + 1x_4 - 1x_6 + 1x_9 &= -2.57077204 \\ -3x_1 + 1x_2 + 5x_3 - 4x_4 - 4x_5 - 1x_6 + 1x_{10} &= -6.50388701 \\ +3x_1 - 3x_2 + 1x_3 + 3x_4 - 4x_5 - 1x_6 + 1x_{11} &= -3.17949565 \\ +1x_1 - 1x_2 + 2x_3 - 4x_4 + 3x_5 - 1x_6 + 1x_{12} &= 40.61780401 \end{aligned}$$

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

Student Number: 12
Student ID: 15175758

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

Constraint Equations:

$$\begin{aligned} +1x_1 - 4x_2 + 4x_3 + 5x_4 + 4x_5 + 1x_7 &= 76.88430784 \\ -2x_1 + 2x_2 - 3x_3 - 3x_4 + 4x_5 - 5x_6 + 1x_8 &= -25.01806976 \\ +3x_1 + 2x_2 - 2x_3 + 2x_4 - 4x_5 + 3x_6 + 1x_9 &= 20.79062231 \\ -2x_1 + 4x_2 + 3x_3 - 4x_5 - 5x_6 + 1x_{10} &= 13.93100284 \\ +1x_1 + 5x_2 - 5x_3 - 2x_4 + 2x_5 + 2x_6 + 1x_{11} &= 48.40162227 \\ +4x_1 + 3x_2 - 5x_3 - 2x_4 - 1x_5 + 4x_6 + 1x_{12} &= 35.91266129 \end{aligned}$$

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

Student Number: 13
Student ID: 15167763

Minimise: $z = -4x_2 - 2x_3 + 5x_4 + 1x_5 - 5x_6$

Constraint Equations:

$$\begin{aligned} -5x_1 - 1x_2 + 4x_3 - 1x_4 - 4x_5 + 3x_6 + 1x_7 &= -38.86662203 \\ +1x_1 - 4x_4 + 4x_5 + 1x_8 &= 33.50305378 \\ -2x_1 - 4x_2 + 2x_3 - 4x_4 - 5x_5 - 3x_6 + 1x_9 &= -96.34663224 \\ -3x_1 + 1x_2 + 2x_3 - 1x_4 + 1x_5 - 1x_6 + 1x_{10} &= 9.50919624 \\ +4x_1 + 1x_2 + 5x_3 + 1x_4 + 4x_5 - 1x_6 + 1x_{11} &= 132.53562722 \\ +2x_1 + 3x_6 + 1x_{12} &= 27.95165030 \end{aligned}$$

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

Student Number: 14
Student ID: 11141336

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

Constraint Equations:

$$\begin{aligned} +5x_2 + 2x_3 - 2x_4 + 4x_5 + 2x_6 + 1x_7 &= 133.96503473 \\ +2x_1 + 2x_2 + 5x_3 + 4x_4 - 4x_5 - 3x_6 + 1x_8 &= 68.28950153 \\ -1x_1 + 3x_2 + 4x_3 + 4x_5 + 5x_6 + 1x_9 &= 122.91975278 \\ -1x_1 + 3x_2 + 4x_3 + 3x_4 - 3x_5 + 1x_6 + 1x_{10} &= 34.08353089 \\ -1x_1 - 4x_2 + 5x_3 + 3x_4 - 1x_5 - 1x_6 + 1x_{11} &= -25.32728628 \\ +3x_1 + 4x_2 - 2x_3 + 1x_4 + 5x_5 + 2x_6 + 1x_{12} &= 157.09364691 \end{aligned}$$

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

Student Number: 15
Student ID: 14143399

Minimise: $z = -5x_1 - 1x_2 + 4x_3 - 1x_4 - 2x_5 + 2x_6$

Constraint Equations:

$$\begin{aligned} -2x_1 + 3x_2 - 4x_3 + 3x_4 - 5x_5 + 1x_6 + 1x_7 &= 43.30104190 \\ +4x_1 - 1x_2 - 1x_3 - 1x_4 - 1x_5 + 2x_6 + 1x_8 &= 59.82098926 \\ -5x_1 + 1x_2 + 3x_4 + 3x_5 - 3x_6 + 1x_9 &= -75.40551781 \\ +1x_1 - 4x_2 - 4x_3 + 3x_4 + 1x_{10} &= -38.95534682 \\ -3x_1 + 1x_2 - 3x_3 + 2x_4 + 1x_5 - 1x_6 + 1x_{11} &= -33.73845066 \\ +4x_1 - 1x_2 + 3x_3 + 1x_6 + 1x_{12} &= 62.90321697 \end{aligned}$$

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

Student Number: 16
Student ID: 14148528

Minimise: $z = -1x_1 - 5x_2 - 2x_3 - 3x_6$

Constraint Equations:

$$\begin{aligned} +5x_1 - 3x_2 + 4x_3 - 3x_4 - 4x_5 + 5x_6 + 1x_7 &= -65.65151090 \\ +2x_1 - 5x_2 + 4x_3 + 1x_4 + 2x_5 - 5x_6 + 1x_8 &= -15.14382190 \\ +2x_1 + 1x_2 - 1x_3 + 5x_4 + 3x_5 + 4x_6 + 1x_9 &= 185.17214430 \\ +2x_1 - 4x_3 + 1x_4 - 2x_5 + 5x_6 + 1x_{10} &= -1.26648766 \\ +1x_1 + 1x_2 + 2x_3 + 4x_4 - 3x_5 - 1x_6 + 1x_{11} &= 63.83739694 \\ -3x_1 + 4x_2 + 4x_3 - 5x_4 - 4x_5 - 2x_6 + 1x_{12} &= -84.27202010 \end{aligned}$$

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

Student Number: 17
Student ID: 15184374

Minimise: $z = -5x_1 - 1x_4 + 5x_5 - 3x_6$

Constraint Equations:

$$\begin{aligned} -3x_1 + 2x_3 - 3x_4 + 3x_5 + 2x_6 + 1x_7 &= -0.00840998 \\ -4x_1 + 2x_2 - 1x_3 - 5x_4 - 1x_5 + 5x_6 + 1x_8 &= -14.72593004 \\ +3x_1 + 3x_2 + 5x_3 + 4x_4 + 1x_5 + 1x_6 + 1x_9 &= 171.65532841 \\ +4x_1 + 2x_2 - 5x_3 - 1x_4 + 5x_6 + 1x_{10} &= 66.47241251 \\ -4x_1 + 3x_2 + 3x_3 - 4x_4 + 3x_5 + 5x_6 + 1x_{11} &= 60.74891596 \\ +2x_1 + 3x_2 + 4x_3 - 2x_4 + 2x_5 - 2x_6 + 1x_{12} &= 33.45100996 \end{aligned}$$

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

Student Number: 18
Student ID: 15179591

Minimise: $z = -4x_1 - 1x_2 + 5x_3 - 6x_4 - 2x_5 - 4x_6$

Constraint Equations:

$$\begin{aligned} +5x_1 + 4x_2 - 1x_3 + 4x_5 - 2x_6 + 1x_7 &= 79.29259627 \\ +3x_1 + 3x_3 + 2x_5 + 2x_6 + 1x_8 &= 68.61108241 \\ -1x_3 - 4x_4 - 1x_5 - 2x_6 + 1x_9 &= -36.56428279 \\ +2x_1 + 4x_3 + 5x_4 - 5x_5 - 3x_6 + 1x_{10} &= -20.64130250 \\ -1x_1 + 3x_2 + 2x_3 + 4x_4 - 2x_5 + 1x_6 + 1x_{11} &= 10.18574888 \\ +1x_1 + 3x_3 - 3x_5 + 3x_6 + 1x_{12} &= 21.82055894 \end{aligned}$$

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

Student Number: 19
Student ID: 15172074

Minimise: $z = -7x_2 + 4x_3 - 1x_4 - 4x_5 - 7x_6$

Constraint Equations:

$$\begin{aligned}+3x_1 - 3x_2 + 5x_3 - 4x_5 - 2x_6 + 1x_7 &= -62.36080221 \\-3x_1 + 5x_2 - 3x_3 - 5x_4 + 2x_5 + 2x_6 + 1x_8 &= -13.72194112 \\+2x_1 + 4x_2 - 1x_3 + 1x_4 + 5x_5 + 4x_6 + 1x_9 &= 228.01050554 \\-2x_1 - 3x_2 + 3x_3 + 4x_4 + 3x_5 + 1x_{10} &= 65.32826322 \\-2x_1 + 2x_2 - 2x_3 - 1x_4 + 5x_5 + 1x_6 + 1x_{11} &= 73.09471593 \\+4x_1 - 2x_2 - 1x_3 - 1x_4 + 1x_{12} &= -9.54591600\end{aligned}$$

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

Student Number: 20
Student ID: 15171302

Minimise: $z = -7x_1 - 6x_2 + 1x_3 - 4x_4 + 3x_5 + 1x_6$

Constraint Equations:

$$\begin{aligned}-2x_1 + 2x_2 + 4x_3 + 4x_4 + 5x_5 + 4x_6 + 1x_7 &= 83.99755980 \\+3x_1 - 4x_2 - 1x_3 - 2x_4 - 3x_5 - 5x_6 + 1x_8 &= -54.99771985 \\+4x_1 - 4x_2 - 2x_3 + 3x_4 - 2x_5 + 1x_9 &= 58.33255744 \\+3x_1 - 2x_2 - 1x_3 - 1x_4 + 3x_5 - 1x_6 + 1x_{10} &= 28.58061515 \\+2x_1 + 4x_2 + 4x_4 - 3x_5 - 3x_6 + 1x_{11} &= 1.90918780 \\+1x_2 + 4x_3 + 1x_4 - 5x_5 - 3x_6 + 1x_{12} &= -35.93456998\end{aligned}$$

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

Student Number: 21
Student ID: 15153851

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

Constraint Equations:

$$\begin{aligned} -3x_1 - 2x_2 + 4x_3 - 1x_4 + 5x_5 - 1x_6 + 1x_7 &= 79.40011245 \\ -4x_1 + 5x_2 - 3x_3 - 2x_4 + 4x_5 - 4x_6 + 1x_8 &= 45.10915690 \\ +3x_1 + 5x_2 - 2x_3 - 1x_5 + 5x_6 + 1x_9 &= 58.29709263 \\ -1x_2 - 1x_3 + 4x_4 - 3x_5 - 5x_6 + 1x_{10} &= -31.03640953 \\ +3x_1 + 5x_2 + 2x_3 + 4x_4 + 5x_5 + 1x_6 + 1x_{11} &= 263.36355631 \\ -1x_1 - 1x_2 + 1x_3 + 1x_5 - 3x_6 + 1x_{12} &= -2.96033995 \end{aligned}$$

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

Student Number: 22
Student ID: 14155605

Minimise: $z = +2x_1 + 3x_2 - 3x_3 - 2x_5 - 4x_6$

Constraint Equations:

$$\begin{aligned} -1x_1 - 5x_2 - 3x_3 + 1x_4 + 4x_5 + 5x_6 + 1x_7 &= 58.23244546 \\ -2x_1 - 2x_3 + 3x_5 + 4x_6 + 1x_8 &= 50.11415437 \\ +1x_1 - 4x_3 + 1x_4 + 4x_5 - 2x_6 + 1x_9 &= 78.82416639 \\ +2x_1 + 4x_2 - 1x_3 + 4x_4 + 5x_5 - 4x_6 + 1x_{10} &= 189.49096059 \\ -2x_1 - 1x_2 + 4x_3 - 1x_5 + 4x_6 + 1x_{11} &= -11.80692609 \\ -2x_1 + 1x_2 - 5x_4 + 3x_5 + 3x_6 + 1x_{12} &= -15.65618708 \end{aligned}$$

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

Student Number: 23
Student ID: 15159612

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

Constraint Equations:

$$\begin{aligned} +3x_1 + 1x_5 + 4x_6 + 1x_7 &= 73.04826163 \\ -1x_1 + 5x_2 + 1x_3 - 2x_4 + 4x_5 + 1x_8 &= 83.96753496 \\ +1x_1 - 3x_2 - 2x_3 + 4x_4 + 3x_5 + 4x_6 + 1x_9 &= 67.08662568 \\ +2x_1 - 2x_2 - 1x_3 - 2x_4 - 2x_5 + 3x_6 + 1x_{10} &= -29.16824024 \\ +2x_1 - 1x_2 + 4x_4 + 3x_5 + 1x_{11} &= 58.29600539 \\ -2x_1 - 3x_2 + 3x_4 - 4x_5 + 4x_6 + 1x_{12} &= 29.62232523 \end{aligned}$$

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

Student Number: 24
Student ID: 15181413

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

Constraint Equations:

$$\begin{aligned} +1x_1 + 4x_2 - 4x_3 + 2x_4 + 1x_5 + 1x_6 + 1x_7 &= 87.15062800 \\ +5x_1 - 2x_2 + 1x_3 + 3x_4 - 2x_5 - 1x_6 + 1x_8 &= 85.70986765 \\ +3x_2 + 2x_3 + 4x_4 - 5x_5 - 1x_6 + 1x_9 &= 110.62508409 \\ +3x_1 - 3x_2 - 4x_3 - 1x_4 + 3x_5 + 2x_6 + 1x_{10} &= -23.23065759 \\ -2x_1 + 1x_2 + 4x_3 - 3x_4 + 4x_6 + 1x_{11} &= 60.66682385 \\ +4x_1 - 1x_2 + 2x_4 + 3x_6 + 1x_{12} &= 133.21820753 \end{aligned}$$

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

Student Number: 25
Student ID: 15151611

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

Constraint Equations:

$$\begin{aligned} +4x_1 - 3x_3 - 1x_4 + 2x_5 + 3x_6 + 1x_7 &= 42.29444942 \\ -2x_1 - 1x_2 + 4x_3 + 4x_4 + 5x_5 + 4x_6 + 1x_8 &= 186.57459433 \\ -3x_1 + 1x_2 + 3x_4 - 4x_5 + 1x_6 + 1x_9 &= 42.72556902 \\ -1x_1 + 2x_2 + 4x_3 - 4x_4 + 3x_5 + 1x_6 + 1x_{10} &= 43.18497515 \\ +3x_2 - 4x_3 - 1x_4 + 3x_5 - 3x_6 + 1x_{11} &= -36.25117821 \\ -2x_1 + 4x_2 - 4x_3 + 4x_4 + 5x_5 - 4x_6 + 1x_{12} &= 54.33928331 \end{aligned}$$

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

Student Number: 26
Student ID: 15174522

Minimise: $z = -5x_1 + 5x_2 - 4x_3 + 2x_5 - 7x_6$

Constraint Equations:

$$\begin{aligned} +1x_1 - 3x_2 - 1x_3 + 1x_4 - 1x_5 + 1x_6 + 1x_7 &= 21.68095420 \\ +3x_1 - 1x_2 + 1x_3 - 2x_4 + 1x_5 - 4x_6 + 1x_8 &= -1.66918060 \\ +3x_1 - 5x_2 + 1x_3 + 4x_4 + 4x_5 - 2x_6 + 1x_9 &= 95.72123120 \\ +1x_1 + 5x_2 + 3x_3 - 1x_4 + 1x_5 + 1x_{10} &= 32.93552889 \\ +3x_1 - 2x_3 + 2x_4 - 4x_5 + 4x_6 + 1x_{11} &= 97.20309505 \\ +1x_1 - 2x_2 - 2x_3 + 4x_4 - 4x_5 + 5x_6 + 1x_{12} &= 90.86438907 \end{aligned}$$

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

Student Number: 27
Student ID: 15171493

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

Constraint Equations:

$$\begin{aligned}+3x_1 + 4x_2 + 1x_3 + 3x_4 + 4x_5 - 4x_6 + 1x_7 &= 81.95313747 \\+2x_1 - 4x_2 + 4x_3 - 5x_4 + 3x_5 - 2x_6 + 1x_8 &= 60.03659808 \\-3x_1 + 4x_2 + 4x_3 + 2x_4 + 1x_5 - 1x_6 + 1x_9 &= 81.74169802 \\-2x_2 + 4x_4 + 3x_5 + 3x_6 + 1x_{10} &= 115.98186721 \\+4x_1 + 1x_2 + 4x_4 + 4x_5 + 1x_{11} &= 128.39319633 \\-2x_1 + 1x_2 + 2x_3 - 1x_4 - 3x_5 - 1x_6 + 1x_{12} &= -41.18704581\end{aligned}$$

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

Student Number: 28
Student ID: 15150992

Minimise: $z = -4x_1 + 3x_2 - 3x_3 - 7x_4$

Constraint Equations:

$$\begin{aligned}+1x_2 - 2x_3 + 2x_4 + 2x_5 - 3x_6 + 1x_7 &= -2.53252171 \\+4x_1 + 1x_2 - 2x_3 + 2x_4 + 2x_5 - 3x_6 + 1x_8 &= 55.97690089 \\-2x_1 - 1x_2 - 2x_3 + 3x_4 + 3x_5 - 1x_6 + 1x_9 &= -12.63257334 \\-4x_1 + 2x_2 - 3x_3 - 2x_4 - 2x_5 + 1x_6 + 1x_{10} &= -66.55311910 \\+2x_1 + 4x_2 + 2x_3 + 4x_4 - 1x_5 + 1x_{11} &= 93.18001418 \\+1x_1 - 1x_2 + 4x_3 + 3x_4 + 2x_5 + 5x_6 + 1x_{12} &= 98.57810931\end{aligned}$$

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

Student Number: 29
Student ID: 13154036

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

Constraint Equations:

$$\begin{aligned}+4x_1 + 3x_2 - 3x_3 + 2x_4 - 4x_5 + 5x_6 + 1x_7 &= 16.42046188 \\-2x_1 - 3x_2 + 4x_3 - 1x_4 + 3x_5 + 5x_6 + 1x_8 &= 70.86016927 \\-2x_1 - 1x_2 + 2x_3 + 5x_5 + 4x_6 + 1x_9 &= 92.48589830 \\+4x_1 + 5x_2 + 1x_3 + 1x_4 + 5x_6 + 1x_{10} &= 113.89884977 \\+4x_1 + 3x_2 - 4x_3 + 1x_4 + 4x_5 - 2x_6 + 1x_{11} &= 54.02164871 \\-1x_1 + 2x_2 + 2x_3 - 2x_4 + 2x_5 - 2x_6 + 1x_{12} &= 17.79461920\end{aligned}$$

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

Student Number: 30
Student ID: 15151026

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

Constraint Equations:

$$\begin{aligned}-5x_1 - 1x_3 + 5x_4 + 5x_5 + 1x_7 &= -16.48165115 \\+3x_1 + 4x_2 + 2x_3 - 3x_4 + 2x_5 - 3x_6 + 1x_8 &= 54.80578245 \\-5x_1 - 3x_2 - 3x_3 + 4x_4 + 4x_5 + 1x_6 + 1x_9 &= -60.84216790 \\+5x_2 - 1x_3 + 3x_4 - 4x_5 + 5x_6 + 1x_{10} &= 77.68444409 \\+4x_1 + 3x_2 + 1x_3 + 1x_4 + 2x_5 + 1x_6 + 1x_{11} &= 130.95326328 \\+4x_1 - 5x_2 - 1x_3 + 3x_4 - 3x_5 + 4x_6 + 1x_{12} &= 77.31671429\end{aligned}$$

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

Student Number: 31
Student ID: 15171884

Minimise: $z = -7x_1 - 6x_2 + 2x_3 + 1x_4 - 2x_5 + 1x_6$

Constraint Equations:

$$\begin{aligned} -2x_1 + 5x_2 + 1x_3 - 1x_4 - 4x_5 + 3x_6 + 1x_7 &= 63.59399589 \\ +4x_1 - 1x_2 - 1x_3 - 4x_4 + 1x_5 - 5x_6 + 1x_8 &= -87.28415056 \\ +2x_2 + 1x_3 + 1x_6 + 1x_9 &= 59.98757680 \\ +3x_1 + 2x_2 + 4x_3 + 3x_4 + 3x_6 + 1x_{10} &= 229.26136738 \\ +5x_2 - 1x_3 - 5x_4 - 1x_5 + 1x_6 + 1x_{11} &= 6.97165328 \\ +1x_1 + 2x_2 - 1x_3 + 2x_4 - 1x_5 + 1x_{12} &= 65.60790164 \end{aligned}$$

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

Student Number: 32
Student ID: 15162516

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

Constraint Equations:

$$\begin{aligned} +3x_1 + 5x_2 - 1x_3 + 2x_4 + 5x_5 - 5x_6 + 1x_7 &= 50.29260649 \\ +4x_2 - 1x_3 - 1x_4 + 1x_5 + 1x_8 &= 8.83982940 \\ +3x_1 + 2x_2 + 2x_3 + 4x_5 + 1x_6 + 1x_9 &= 118.08230506 \\ -2x_1 + 4x_2 + 4x_3 + 4x_4 - 2x_5 + 5x_6 + 1x_{10} &= 189.76034641 \\ +3x_1 - 1x_2 - 1x_3 + 1x_5 - 1x_6 + 1x_{11} &= 3.50332399 \\ -1x_1 + 5x_2 - 5x_3 + 1x_5 + 5x_6 + 1x_{12} &= 79.38160430 \end{aligned}$$

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

Student Number: 33
Student ID: 15165418

Minimise: $z = -3x_1 - 2x_2 + 1x_3 - 7x_4 - 4x_6$

Constraint Equations:

$$\begin{aligned} -4x_1 + 4x_2 - 3x_3 + 2x_4 + 5x_6 + 1x_7 &= 19.79001696 \\ -5x_1 + 1x_2 - 2x_3 + 3x_4 + 5x_5 - 2x_6 + 1x_8 &= -54.80413172 \\ +4x_1 - 1x_2 + 2x_3 - 1x_5 + 1x_9 &= 65.95399509 \\ -3x_1 + 2x_2 + 3x_3 - 5x_4 + 3x_5 - 1x_6 + 1x_{10} &= -67.88845293 \\ -3x_1 + 4x_2 - 1x_4 - 1x_5 - 4x_6 + 1x_{11} &= -28.74985049 \\ +4x_1 + 2x_2 + 3x_3 + 2x_5 + 1x_{12} &= 117.90104864 \end{aligned}$$

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

Student Number: 34
Student ID: 16134958

Minimise: $z = -7x_1 - 1x_2 - 7x_3 + 4x_4 - 5x_5 + 3x_6$

Constraint Equations:

$$\begin{aligned} +4x_1 + 2x_2 - 4x_3 - 3x_4 + 1x_5 + 1x_6 + 1x_7 &= -34.75937929 \\ -1x_1 - 1x_2 - 5x_3 + 4x_4 - 2x_5 + 3x_6 + 1x_8 &= -4.23773923 \\ +4x_1 + 2x_2 + 3x_3 - 3x_4 + 2x_5 - 2x_6 + 1x_9 &= 47.18490535 \\ -2x_2 - 3x_3 + 5x_4 + 5x_5 + 5x_6 + 1x_{10} &= 144.76360569 \\ -4x_1 - 1x_2 + 4x_3 + 5x_4 + 3x_5 + 2x_6 + 1x_{11} &= 156.62164069 \\ -1x_1 + 2x_2 + 1x_3 + 4x_4 + 4x_5 + 2x_6 + 1x_{12} &= 147.96040511 \end{aligned}$$

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

Student Number: 35
Student ID: 15144429

Minimise: $z = +2x_1 - 2x_2 + 3x_3 - 2x_4 - 6x_5 + 3x_6$

Constraint Equations:

$$\begin{aligned} +2x_1 + 2x_2 - 4x_3 + 2x_4 + 4x_5 + 2x_6 + 1x_7 &= 55.26607493 \\ +2x_1 + 4x_2 + 1x_3 - 1x_4 + 5x_5 + 2x_6 + 1x_8 &= 120.12127445 \\ +3x_1 - 5x_2 + 4x_3 + 5x_4 - 3x_5 - 5x_6 + 1x_9 &= -3.98507334 \\ -4x_1 - 3x_2 + 4x_4 + 5x_5 + 1x_{10} &= 40.85135109 \\ -2x_1 + 5x_2 - 2x_3 - 3x_4 - 4x_5 + 3x_6 + 1x_{11} &= -6.69110205 \\ +4x_2 + 1x_3 - 1x_4 + 3x_5 - 5x_6 + 1x_{12} &= 13.14495346 \end{aligned}$$

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

Student Number: 36
Student ID: 15166252

Minimise: $z = -1x_1 + 1x_2 - 6x_4 + 2x_5 + 4x_6$

Constraint Equations:

$$\begin{aligned} +3x_1 + 4x_2 - 2x_3 + 1x_4 - 4x_5 + 5x_6 + 1x_7 &= 57.56900149 \\ +4x_1 + 3x_2 - 2x_3 + 3x_4 - 4x_5 - 1x_6 + 1x_8 &= 48.77930809 \\ -4x_1 + 4x_2 - 4x_3 - 1x_4 + 2x_5 + 1x_9 &= -8.10749672 \\ +5x_1 - 1x_2 + 1x_3 + 1x_4 + 2x_6 + 1x_{10} &= 36.67685557 \\ -1x_1 + 5x_2 + 1x_3 - 1x_4 - 1x_5 + 2x_6 + 1x_{11} &= 82.31186723 \\ -3x_1 - 1x_3 + 4x_4 + 1x_5 + 4x_6 + 1x_{12} &= 44.24011339 \end{aligned}$$

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

Student Number: 37
Student ID: 14150158

Minimise: $z = -3x_1 + 3x_2 + 3x_4 - 3x_5 - 4x_6$

Constraint Equations:

$$\begin{aligned} +2x_1 - 3x_3 + 3x_4 - 5x_5 + 5x_6 + 1x_7 &= 33.33791118 \\ +1x_1 - 1x_2 + 3x_4 + 3x_5 + 4x_6 + 1x_8 &= 87.86329076 \\ -2x_1 + 2x_2 + 3x_3 - 3x_4 + 1x_5 - 4x_6 + 1x_9 &= -26.89988743 \\ -3x_2 - 2x_3 + 3x_4 - 3x_5 + 1x_6 + 1x_{10} &= -51.33525349 \\ -3x_1 + 5x_2 + 4x_3 - 1x_4 + 1x_5 - 1x_6 + 1x_{11} &= 57.56467018 \\ +3x_2 - 4x_4 + 2x_5 + 3x_6 + 1x_{12} &= 28.51601033 \end{aligned}$$

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

Student Number: 38
Student ID: 15163733

Minimise: $z = -7x_1 - 6x_2 - 6x_3 + 1x_4 + 4x_5 + 3x_6$

Constraint Equations:

$$\begin{aligned} +1x_1 - 2x_3 - 5x_4 + 2x_5 + 4x_6 + 1x_7 &= 32.90528206 \\ -3x_1 + 5x_2 - 1x_4 - 5x_5 + 4x_6 + 1x_8 &= -48.54183193 \\ +2x_1 - 4x_2 + 2x_3 + 2x_4 + 5x_5 + 4x_6 + 1x_9 &= 78.48680609 \\ +1x_1 - 1x_3 - 3x_4 - 5x_5 - 3x_6 + 1x_{10} &= -97.77882843 \\ +2x_1 + 5x_2 + 1x_3 - 3x_4 + 1x_5 - 1x_6 + 1x_{11} &= 80.19049077 \\ -3x_1 - 4x_2 - 3x_3 + 2x_4 + 2x_5 + 2x_6 + 1x_{12} &= -31.09760203 \end{aligned}$$

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

Student Number: 39
Student ID: 15161668

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

Constraint Equations:

$$\begin{aligned} -4x_1 + 5x_2 + 4x_4 - 4x_5 - 4x_6 + 1x_7 &= 95.53296175 \\ +4x_1 - 5x_2 + 3x_4 - 5x_5 - 1x_6 + 1x_8 &= -22.10415001 \\ -4x_1 - 5x_3 + 2x_4 - 4x_5 - 2x_6 + 1x_9 &= -122.67876239 \\ +1x_1 - 1x_2 + 2x_3 + 3x_4 + 2x_5 - 5x_6 + 1x_{10} &= 75.37413838 \\ -2x_1 - 5x_2 + 2x_3 + 2x_4 + 3x_5 + 5x_6 + 1x_{11} &= -17.06161446 \\ +3x_1 + 4x_2 - 2x_3 - 2x_4 + 4x_6 + 1x_{12} &= 40.19121872 \end{aligned}$$

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

Student Number: 40
Student ID: 15156729

Minimise: $z = -4x_1 - 1x_2 - 5x_3 + 3x_4 - 2x_5 + 1x_6$

Constraint Equations:

$$\begin{aligned} +4x_1 + 3x_3 + 3x_4 - 5x_5 + 1x_7 &= 77.84457402 \\ +4x_1 + 1x_2 + 5x_3 + 2x_4 + 4x_6 + 1x_8 &= 223.90934047 \\ -5x_2 - 3x_3 - 1x_4 + 5x_5 + 3x_6 + 1x_9 &= 46.89844547 \\ +1x_1 - 3x_2 + 2x_3 + 3x_4 + 4x_5 + 5x_6 + 1x_{10} &= 203.27589864 \\ -1x_1 + 4x_2 - 4x_3 - 2x_4 + 5x_6 + 1x_{11} &= 54.24459401 \\ +1x_1 - 3x_2 - 2x_3 - 1x_4 - 1x_5 + 2x_6 + 1x_{12} &= -5.74479685 \end{aligned}$$

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

Student Number: 41
Student ID: 15163016

Minimise: $z = +3x_1 - 1x_2 - 4x_3 + 5x_4 - 4x_5 + 2x_6$

Constraint Equations:

$$\begin{aligned} -3x_1 + 3x_2 + 3x_3 + 4x_4 - 5x_5 + 2x_6 + 1x_7 &= 103.31914786 \\ -3x_1 + 3x_2 + 5x_4 + 2x_5 - 5x_6 + 1x_8 &= 24.50438742 \\ +1x_1 - 3x_2 + 2x_3 - 2x_4 - 3x_5 + 4x_6 + 1x_9 &= 14.02897619 \\ +3x_1 + 3x_2 + 3x_3 - 4x_4 + 3x_5 + 4x_6 + 1x_{10} &= 145.38969392 \\ -4x_1 - 2x_2 + 4x_3 + 3x_4 - 3x_5 + 1x_6 + 1x_{11} &= 60.61251326 \\ -2x_1 + 2x_2 + 4x_3 + 1x_4 - 2x_5 + 1x_{12} &= 77.96274071 \end{aligned}$$

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

Student Number: 42
Student ID: 15184145

Minimise: $z = +2x_1 - 4x_2 - 5x_3 - 1x_4 + 1x_5 - 4x_6$

Constraint Equations:

$$\begin{aligned} -1x_2 + 3x_3 + 1x_4 + 1x_5 - 3x_6 + 1x_7 &= 7.62034248 \\ +4x_1 + 5x_2 - 2x_4 - 5x_5 - 5x_6 + 1x_8 &= 48.91127838 \\ -4x_1 + 4x_2 + 3x_3 - 2x_4 + 5x_5 - 5x_6 + 1x_9 &= 46.95095237 \\ +1x_1 - 2x_2 + 5x_4 + 4x_5 - 4x_6 + 1x_{10} &= 6.78252437 \\ -2x_1 + 1x_2 - 1x_3 - 4x_4 + 5x_5 + 2x_6 + 1x_{11} &= 12.00026728 \\ +4x_1 + 2x_3 - 2x_4 - 1x_5 + 4x_6 + 1x_{12} &= 49.76301556 \end{aligned}$$

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

Student Number: 43
Student ID: 15177734

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

Constraint Equations:

$$\begin{aligned} +2x_2 + 3x_3 + 1x_4 + 1x_5 + 3x_6 + 1x_7 &= 117.50304106 \\ -1x_1 + 4x_2 - 3x_3 - 3x_4 + 2x_5 - 1x_6 + 1x_8 &= -13.59649112 \\ -2x_1 - 5x_2 + 4x_3 + 1x_4 + 1x_9 &= -57.95166056 \\ -2x_1 + 2x_2 + 3x_3 - 1x_4 - 2x_5 - 2x_6 + 1x_{10} &= -11.38366485 \\ +2x_1 - 2x_2 + 4x_3 + 1x_4 + 4x_5 - 2x_6 + 1x_{11} &= 60.49141945 \\ -3x_1 - 2x_2 + 3x_3 + 1x_4 + 3x_5 + 4x_6 + 1x_{12} &= 28.11670414 \end{aligned}$$

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

Student Number: 44
Student ID: 13137395

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

Constraint Equations:

$$\begin{aligned} -2x_1 + 1x_2 + 3x_3 - 1x_4 + 5x_5 - 3x_6 + 1x_7 &= 70.19863974 \\ +1x_1 + 4x_2 + 4x_3 - 3x_4 + 3x_6 + 1x_8 &= 176.71063250 \\ +2x_1 - 1x_2 - 1x_3 - 3x_4 + 2x_5 - 2x_6 + 1x_9 &= -16.38262948 \\ +4x_1 + 1x_2 + 2x_3 - 3x_4 - 3x_5 + 2x_6 + 1x_{10} &= 69.48001882 \\ -5x_1 + 3x_2 + 5x_3 - 4x_4 - 2x_5 + 3x_6 + 1x_{11} &= 55.34180258 \\ -2x_1 + 3x_2 - 1x_3 + 3x_4 - 1x_6 + 1x_{12} &= 18.36085728 \end{aligned}$$

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

Student Number: 45
Student ID: 15160785

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

Constraint Equations:

$$+4x_1 + 4x_2 + 3x_3 + 2x_4 + 5x_5 - 4x_6 + 1x_7 = 137.38744168$$

$$+2x_1 - 4x_2 + 4x_3 + 3x_4 + 4x_5 + 1x_6 + 1x_8 = 166.97693585$$

$$-5x_1 - 4x_2 + 4x_3 + 1x_4 - 2x_5 - 1x_6 + 1x_9 = -68.08444157$$

$$+5x_1 + 2x_2 + 3x_3 - 3x_4 + 5x_5 + 3x_6 + 1x_{10} = 232.25764036$$

$$+2x_1 - 4x_2 - 4x_3 - 3x_5 - 1x_6 + 1x_{11} = -123.11936335$$

$$-2x_1 + 4x_2 + 1x_3 - 3x_4 - 4x_5 + 3x_6 + 1x_{12} = -18.50320888$$

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

Student Number: 46
Student ID: 15155927

Minimise: $z = -5x_1 - 3x_2 - 1x_3 - 2x_4 - 5x_5 - 5x_6$

Constraint Equations:

$$-1x_1 + 1x_2 + 5x_3 - 4x_4 + 3x_5 - 1x_6 + 1x_7 = -5.78587673$$

$$+3x_1 + 5x_2 + 4x_3 + 1x_4 - 4x_5 + 1x_8 = 88.88049243$$

$$+5x_1 - 4x_2 - 2x_3 + 1x_4 + 4x_5 + 4x_6 + 1x_9 = 33.31897474$$

$$-4x_1 + 2x_2 - 5x_4 - 4x_5 + 1x_{10} = -73.57510645$$

$$+1x_1 + 2x_2 - 2x_4 + 2x_5 + 1x_{11} = 15.26233874$$

$$+4x_1 + 2x_2 - 5x_3 - 3x_4 - 4x_5 - 4x_6 + 1x_{12} = -44.05425246$$

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

Student Number: 47
Student ID: 15175723

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

Constraint Equations:

$$\begin{aligned} -1x_1 - 1x_2 + 1x_3 - 4x_4 + 1x_5 - 3x_6 + 1x_7 &= -14.19174706 \\ -3x_1 + 1x_2 + 2x_3 + 5x_4 + 4x_5 - 4x_6 + 1x_8 &= 96.46659763 \\ +5x_1 + 3x_3 + 4x_4 + 3x_5 - 2x_6 + 1x_9 &= 105.38190714 \\ +2x_1 - 4x_2 + 2x_3 + 2x_4 + 1x_5 + 1x_{10} &= 22.99916500 \\ -4x_1 - 3x_2 + 1x_3 + 3x_4 - 3x_5 + 3x_6 + 1x_{11} &= -16.21585460 \\ +1x_1 - 4x_2 + 4x_3 - 1x_4 - 3x_5 + 1x_{12} &= 3.98711806 \end{aligned}$$

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

Student Number: 48
Student ID: 15141268

Minimise: $z = +5x_1 - 6x_3 - 5x_4 - 6x_5 + 2x_6$

Constraint Equations:

$$\begin{aligned} +4x_1 - 1x_2 + 4x_3 + 2x_4 + 5x_5 - 3x_6 + 1x_7 &= 130.49678372 \\ +2x_1 - 3x_2 - 4x_3 + 4x_4 - 1x_5 - 3x_6 + 1x_8 &= -49.96609466 \\ +1x_1 + 4x_2 - 2x_3 + 4x_4 - 1x_5 - 2x_6 + 1x_9 &= 7.96197654 \\ -1x_1 + 2x_2 - 1x_3 + 2x_4 + 4x_5 + 1x_{10} &= 70.86125007 \\ -1x_1 - 3x_2 - 1x_3 + 4x_4 + 3x_5 + 4x_6 + 1x_{11} &= 74.57838374 \\ -1x_1 - 2x_2 - 2x_3 - 2x_4 + 2x_5 + 5x_6 + 1x_{12} &= 17.82616680 \end{aligned}$$

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

Student Number: 49
Student ID: 15147932

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

Constraint Equations:

$$\begin{aligned} -1x_1 + 3x_2 - 5x_4 + 4x_6 + 1x_7 &= -15.22592350 \\ -3x_1 + 4x_2 + 1x_3 + 3x_4 + 1x_5 - 4x_6 + 1x_8 &= 73.74300337 \\ -4x_1 - 1x_4 + 3x_5 - 4x_6 + 1x_9 &= -40.07990651 \\ +1x_2 + 1x_3 - 3x_4 + 3x_5 - 2x_6 + 1x_{10} &= 14.75638152 \\ -1x_1 - 2x_2 - 3x_3 - 3x_4 - 4x_5 + 5x_6 + 1x_{11} &= -152.92373231 \\ +4x_1 + 4x_2 + 4x_4 + 3x_5 + 5x_6 + 1x_{12} &= 210.30248423 \end{aligned}$$

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

Student Number: 50
Student ID: 15157768

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

Constraint Equations:

$$\begin{aligned} -3x_1 + 3x_2 + 1x_3 + 3x_4 + 1x_5 + 3x_6 + 1x_7 &= 92.55009104 \\ +1x_1 - 2x_2 - 1x_3 - 2x_4 - 3x_5 + 4x_6 + 1x_8 &= -25.74862449 \\ -2x_1 - 3x_2 - 2x_3 + 1x_4 + 3x_5 + 3x_6 + 1x_9 &= 11.95666515 \\ +2x_1 - 1x_2 + 2x_3 - 2x_4 + 1x_5 + 5x_6 + 1x_{10} &= 63.57250191 \\ +2x_1 - 3x_2 + 4x_3 + 1x_4 + 5x_5 + 1x_6 + 1x_{11} &= 114.74503887 \\ +5x_2 - 1x_3 + 2x_4 - 5x_6 + 1x_{12} &= -11.68059759 \end{aligned}$$

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

Student Number: 51
Student ID: 15151735

Minimise: $z = +1x_1 - 6x_2 + 6x_3 - 6x_5 - 6x_6$

Constraint Equations:

$$\begin{aligned} -1x_1 + 4x_3 - 2x_4 - 3x_6 + 1x_7 &= -41.35045343 \\ -4x_1 + 4x_2 + 4x_3 - 4x_5 - 2x_6 + 1x_8 &= -4.46926497 \\ +4x_1 + 1x_2 + 4x_3 + 1x_4 - 4x_5 - 1x_6 + 1x_9 &= 38.51586907 \\ +5x_1 + 3x_3 - 2x_4 + 4x_5 + 2x_6 + 1x_{10} &= 60.99851893 \\ -2x_1 + 1x_2 - 4x_3 + 1x_4 - 1x_5 - 1x_6 + 1x_{11} &= -15.98716147 \\ +5x_1 - 3x_2 + 4x_3 + 3x_4 - 2x_5 + 2x_6 + 1x_{12} &= 50.41447826 \end{aligned}$$

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

Student Number: 52
Student ID: 15153169

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

Constraint Equations:

$$\begin{aligned} -4x_1 + 5x_2 - 2x_3 + 3x_4 + 2x_5 - 2x_6 + 1x_7 &= -27.89075244 \\ -1x_1 + 2x_2 - 3x_3 - 1x_4 + 4x_5 + 4x_6 + 1x_8 &= 18.50959126 \\ +2x_1 + 2x_2 + 4x_3 + 2x_4 + 3x_5 + 3x_6 + 1x_9 &= 189.17683565 \\ +5x_1 - 3x_2 - 2x_3 - 3x_4 + 4x_5 + 2x_6 + 1x_{10} &= 19.85634614 \\ +3x_1 + 4x_2 - 2x_3 + 1x_4 - 5x_5 + 1x_{11} &= 54.97473463 \\ +5x_1 - 4x_2 - 4x_3 + 5x_4 - 2x_5 - 4x_6 + 1x_{12} &= -18.72024927 \end{aligned}$$

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