Initial Dictionary

$$
\begin{array}{c|l}
x_8 & 16.0 \quad -5.00x_1 \;-1.00x_2 \;-6.00x_3 \;+6.00x_4 \;+3.00x_5 \;-9.00x_6 \;+2.00x_7 \\
x_9 & 59.0 \quad -8.00x_1 \;-6.00x_2 \;+3.00x_3 \;+10.00x_4 \;+6.00x_5 \;+7.00x_6 \;-9.00x_7 \\
x_{10} & -19.0 \quad +3.00x_1 \qquad\qquad -10.00x_3 \;-9.00x_4 \;-1.00x_5 \qquad\qquad +9.00x_7 \\
x_{11} & 18.0 \quad -5.00x_1 \;+7.00x_2 \;-4.00x_3 \;-6.00x_4 \;-5.00x_5 \;+4.00x_6 \;-8.00x_7 \\
x_{12} & 59.0 \quad -7.00x_1 \;-10.00x_2 \;+1.00x_3 \;-3.00x_4 \;-7.00x_5 \;+10.00x_6 \;-5.00x_7 \\
x_{13} & 32.0 \quad -9.00x_1 \;-2.00x_2 \;-1.00x_3 \;+8.00x_4 \;-6.00x_5 \;-2.00x_6 \;-2.00x_7 \\
x_{14} & 42.0 \quad -9.00x_1 \;-5.00x_2 \;+7.00x_3 \;+3.00x_4 \;-7.00x_5 \;-6.00x_6 \;-5.00x_7 \\
\hline
z & 0.0 \quad +2.00x_1 \;-4.00x_2 \;-2.00x_3 \;-5.00x_4 \;-3.00x_5 \;-4.00x_6 \;-5.00x_7
\end{array}
$$

0.1 Initialization Phase: Dual Problem Solving

New Objective in primal was changed to :

$$\max \sum_{j=1}^{7} -x_j$$

Primal variable x_j corresponds to dual variable y_j for $j = 1, \ldots, 14$ Dual Dictionary (with objective changed is):

$$
\begin{array}{c|l}
y_1 & 1.0 \quad +5.00y_8 \;+8.00y_9 \;-3.00y_{10} \;+5.00y_{11} \;+7.00y_{12} \;+9.00y_{13} \;+9.00y_{14} \\
y_2 & 1.0 \quad +1.00y_8 \;+6.00y_9 \qquad\qquad -7.00y_{11} \;+10.00y_{12} \;+2.00y_{13} \;+5.00y_{14} \\
y_3 & 1.0 \quad +6.00y_8 \;-3.00y_9 \;+10.00y_{10} \;+4.00y_{11} \;-1.00y_{12} \;+1.00y_{13} \;-7.00y_{14} \\
y_4 & 1.0 \quad -6.00y_8 \;-10.00y_9 \;+9.00y_{10} \;+6.00y_{11} \;+3.00y_{12} \;-8.00y_{13} \;-3.00y_{14} \\
y_5 & 1.0 \quad -3.00y_8 \;-6.00y_9 \;+1.00y_{10} \;+5.00y_{11} \;+7.00y_{12} \;+6.00y_{13} \;+7.00y_{14} \\
y_6 & 1.0 \quad +9.00y_8 \;-7.00y_9 \qquad\qquad -4.00y_{11} \;-10.00y_{12} \;+2.00y_{13} \;+6.00y_{14} \\
y_7 & 1.0 \quad -2.00y_8 \;+9.00y_9 \;-9.00y_{10} \;+8.00y_{11} \;+5.00y_{12} \;+2.00y_{13} \;+5.00y_{14} \\
\hline
z & -0 \quad -16.00y_8 \;-59.00y_9 \;+19.00y_{10} \;-18.00y_{11} \;-59.00y_{12} \;-32.00y_{13} \;-42.00y_{14}
\end{array}
$$

Initialization succeeded in finding final dual dictionary with 2 pivots

$$
\begin{array}{c|l}
y_1 & 0.666666666667 \quad +5.67y_8 \;+5.00y_9 \;+0.33y_7 \;+2.33y_{11} \;+5.33y_{12} \;+8.33y_{13} \;+7.33y_{14} \\
y_2 & 1.0 \quad +1.00y_8 \;+6.00y_9 \qquad\qquad -7.00y_{11} \;+10.00y_{12} \;+2.00y_{13} \;+5.00y_{14} \\
y_3 & 2.11111111111 \quad +3.78y_8 \;+7.00y_9 \;-1.11y_7 \;+12.89y_{11} \;+4.56y_{12} \;+3.22y_{13} \;-1.44y_{14} \\
y_4 & 2.0 \quad -8.00y_8 \;-1.00y_9 \;-1.00y_7 \;+14.00y_{11} \;+8.00y_{12} \;-6.00y_{13} \;+2.00y_{14} \\
y_5 & 1.11111111111 \quad -3.22y_8 \;-5.00y_9 \;-0.11y_7 \;+5.89y_{11} \;+7.56y_{12} \;+6.22y_{13} \;+7.56y_{14} \\
y_6 & 1.0 \quad +9.00y_8 \;-7.00y_9 \qquad\qquad -4.00y_{11} \;-10.00y_{12} \;+2.00y_{13} \;+6.00y_{14} \\
y_{10} & 0.111111111111 \quad -0.22y_8 \;+1.00y_9 \;-0.11y_7 \;+0.89y_{11} \;+0.56y_{12} \;+0.22y_{13} \;+0.56y_{14} \\
\hline
z & 2.11111111111 \quad -20.22y_8 \;-40.00y_9 \;-2.11y_7 \;-1.11y_{11} \;-48.44y_{12} \;-27.78y_{13} \;-31.44y_{14}
\end{array}
$$

Primal Dictionary is:

x_8	20.2222222222	$-5.67x_1$	$-1.00x_2$	$-3.78x_3$	$+8.00x_4$	$+3.22x_5$	$-9.00x_6$	$+0.22x_{10}$
x_9	40.0	$-5.00x_1$	$-6.00x_2$	$-7.00x_3$	$+1.00x_4$	$+5.00x_5$	$+7.00x_6$	$-1.00x_{10}$
x_7	2.11111111111	$-0.33x_1$		$+1.11x_3$	$+1.00x_4$	$+0.11x_5$		$+0.11x_{10}$
x_{11}	1.11111111111	$-2.33x_1$	$+7.00x_2$	$-12.89x_3$	$-14.00x_4$	$-5.89x_5$	$+4.00x_6$	$-0.89x_{10}$
x_{12}	48.4444444444	$-5.33x_1$	$-10.00x_2$	$-4.56x_3$	$-8.00x_4$	$-7.56x_5$	$+10.00x_6$	$-0.56x_{10}$
x_{13}	27.7777777778	$-8.33x_1$	$-2.00x_2$	$-3.22x_3$	$+6.00x_4$	$-6.22x_5$	$-2.00x_6$	$-0.22x_{10}$
x_{14}	31.4444444444	$-7.33x_1$	$-5.00x_2$	$+1.44x_3$	$-2.00x_4$	$-7.56x_5$	$-6.00x_6$	$-0.56x_{10}$
z	-2.11111111111	$-0.67x_1$	$-1.00x_2$	$-2.11x_3$	$-2.00x_4$	$-1.11x_5$	$-1.00x_6$	$-0.11x_{10}$

Primal Dictionary with original objective is:

x_8	20.2222222222	$-5.67x_1$	$-1.00x_2$	$-3.78x_3$	$+8.00x_4$	$+3.22x_5$	$-9.00x_6$	$+0.22x_{10}$
x_9	40.0	$-5.00x_1$	$-6.00x_2$	$-7.00x_3$	$+1.00x_4$	$+5.00x_5$	$+7.00x_6$	$-1.00x_{10}$
x_7	2.11111111111	$-0.33x_1$		$+1.11x_3$	$+1.00x_4$	$+0.11x_5$		$+0.11x_{10}$
x_{11}	1.11111111111	$-2.33x_1$	$+7.00x_2$	$-12.89x_3$	$-14.00x_4$	$-5.89x_5$	$+4.00x_6$	$-0.89x_{10}$
x_{12}	48.4444444444	$-5.33x_1$	$-10.00x_2$	$-4.56x_3$	$-8.00x_4$	$-7.56x_5$	$+10.00x_6$	$-0.56x_{10}$
x_{13}	27.7777777778	$-8.33x_1$	$-2.00x_2$	$-3.22x_3$	$+6.00x_4$	$-6.22x_5$	$-2.00x_6$	$-0.22x_{10}$
x_{14}	31.4444444444	$-7.33x_1$	$-5.00x_2$	$+1.44x_3$	$-2.00x_4$	$-7.56x_5$	$-6.00x_6$	$-0.56x_{10}$
z	-10.5555555556	$+3.67x_1$	$-4.00x_2$	$-7.56x_3$	$-10.00x_4$	$-3.56x_5$	$-4.00x_6$	$-0.56x_{10}$

x_1 enters and x_{11} leaves

x_8	17.5238095238	$+2.43x_{11}$	$-18.00x_2$	$+27.52x_3$	$+42.00x_4$	$+17.52x_5$	$-18.71x_6$	$+2.38x_{10}$
x_9	37.619047619	$+2.14x_{11}$	$-21.00x_2$	$+20.62x_3$	$+31.00x_4$	$+17.62x_5$	$-1.57x_6$	$+0.90x_{10}$
x_7	1.95238095238	$+0.14x_{11}$	$-1.00x_2$	$+2.95x_3$	$+3.00x_4$	$+0.95x_5$	$-0.57x_6$	$+0.24x_{10}$
x_1	0.47619047619	$-0.43x_{11}$	$+3.00x_2$	$-5.52x_3$	$-6.00x_4$	$-2.52x_5$	$+1.71x_6$	$-0.38x_{10}$
x_{12}	45.9047619048	$+2.29x_{11}$	$-26.00x_2$	$+24.90x_3$	$+24.00x_4$	$+5.90x_5$	$+0.86x_6$	$+1.48x_{10}$
x_{13}	23.8095238095	$+3.57x_{11}$	$-27.00x_2$	$+42.81x_3$	$+56.00x_4$	$+14.81x_5$	$-16.29x_6$	$+2.95x_{10}$
x_{14}	27.9523809524	$+3.14x_{11}$	$-27.00x_2$	$+41.95x_3$	$+42.00x_4$	$+10.95x_5$	$-18.57x_6$	$+2.24x_{10}$
z	-8.80952380952	$-1.57x_{11}$	$+7.00x_2$	$-27.81x_3$	$-32.00x_4$	$-12.81x_5$	$+2.29x_6$	$-1.95x_{10}$

x_2 enters and x_{13} leaves

x_8	1.65079365079	$+0.05x_{11}$	$+0.67x_{13}$	$-1.02x_3$	$+4.67x_4$	$+7.65x_5$	$-7.86x_6$	$+0.41x_{10}$
x_9	19.1005291005	$-0.63x_{11}$	$+0.78x_{13}$	$-12.68x_3$	$-12.56x_4$	$+6.10x_5$	$+11.10x_6$	$-1.39x_{10}$
x_7	1.07054673721	$+0.01x_{11}$	$+0.04x_{13}$	$+1.37x_3$	$+0.93x_4$	$+0.40x_5$	$+0.03x_6$	$+0.13x_{10}$
x_1	3.12169312169	$-0.03x_{11}$	$-0.11x_{13}$	$-0.77x_3$	$+0.22x_4$	$-0.88x_5$	$-0.10x_6$	$-0.05x_{10}$
x_{12}	22.9770723104	$-1.15x_{11}$	$+0.96x_{13}$	$-16.32x_3$	$-29.93x_4$	$-8.36x_5$	$+16.54x_6$	$-1.37x_{10}$
x_2	0.881834215168	$+0.13x_{11}$	$-0.04x_{13}$	$+1.59x_3$	$+2.07x_4$	$+0.55x_5$	$-0.60x_6$	$+0.11x_{10}$
x_{14}	4.14285714286	$-0.43x_{11}$	$+1.00x_{13}$	$-0.86x_3$	$-14.00x_4$	$-3.86x_5$	$-2.29x_6$	$-0.71x_{10}$
z	-2.63668430335	$-0.65x_{11}$	$-0.26x_{13}$	$-16.71x_3$	$-17.48x_4$	$-8.97x_5$	$-1.94x_6$	$-1.19x_{10}$

Final Dictionary Final dictionary after first LP relaxation solve:

x_8	1.65079365079	$+0.05x_{11}$	$+0.67x_{13}$	$-1.02x_3$	$+4.67x_4$	$+7.65x_5$	$-7.86x_6$	$+0.41x_{10}$
x_9	19.1005291005	$-0.63x_{11}$	$+0.78x_{13}$	$-12.68x_3$	$-12.56x_4$	$+6.10x_5$	$+11.10x_6$	$-1.39x_{10}$
x_7	1.07054673721	$+0.01x_{11}$	$+0.04x_{13}$	$+1.37x_3$	$+0.93x_4$	$+0.40x_5$	$+0.03x_6$	$+0.13x_{10}$
x_1	3.12169312169	$-0.03x_{11}$	$-0.11x_{13}$	$-0.77x_3$	$+0.22x_4$	$-0.88x_5$	$-0.10x_6$	$-0.05x_{10}$
x_{12}	22.9770723104	$-1.15x_{11}$	$+0.96x_{13}$	$-16.32x_3$	$-29.93x_4$	$-8.36x_5$	$+16.54x_6$	$-1.37x_{10}$
x_2	0.881834215168	$+0.13x_{11}$	$-0.04x_{13}$	$+1.59x_3$	$+2.07x_4$	$+0.55x_5$	$-0.60x_6$	$+0.11x_{10}$
x_{14}	4.14285714286	$-0.43x_{11}$	$+1.00x_{13}$	$-0.86x_3$	$-14.00x_4$	$-3.86x_5$	$-2.29x_6$	$-0.71x_{10}$
z	-2.63668430335	$-0.65x_{11}$	$-0.26x_{13}$	$-16.71x_3$	$-17.48x_4$	$-8.97x_5$	$-1.94x_6$	$-1.19x_{10}$

After cutting plane is added

x_8	1.65079365079	$+0.05x_{11}$	$+0.67x_{13}$	$-1.02x_3$	$+4.67x_4$	$+7.65x_5$	$-7.86x_6$	$+0.41x_{10}$
x_9	19.1005291005	$-0.63x_{11}$	$+0.78x_{13}$	$-12.68x_3$	$-12.56x_4$	$+6.10x_5$	$+11.10x_6$	$-1.39x_{10}$
x_7	1.07054673721	$+0.01x_{11}$	$+0.04x_{13}$	$+1.37x_3$	$+0.93x_4$	$+0.40x_5$	$+0.03x_6$	$+0.13x_{10}$
x_1	3.12169312169	$-0.03x_{11}$	$-0.11x_{13}$	$-0.77x_3$	$+0.22x_4$	$-0.88x_5$	$-0.10x_6$	$-0.05x_{10}$
x_{12}	22.9770723104	$-1.15x_{11}$	$+0.96x_{13}$	$-16.32x_3$	$-29.93x_4$	$-8.36x_5$	$+16.54x_6$	$-1.37x_{10}$
x_2	0.881834215168	$+0.13x_{11}$	$-0.04x_{13}$	$+1.59x_3$	$+2.07x_4$	$+0.55x_5$	$-0.60x_6$	$+0.11x_{10}$
x_{14}	4.14285714286	$-0.43x_{11}$	$+1.00x_{13}$	$-0.86x_3$	$-14.00x_4$	$-3.86x_5$	$-2.29x_6$	$-0.71x_{10}$
x_{15}	-0.650793650794	$+0.95x_{11}$	$+0.33x_{13}$	$+0.02x_3$	$+0.33x_4$	$+0.35x_5$	$+0.86x_6$	$+0.59x_{10}$
x_{16}	-0.100529100529	$+0.63x_{11}$	$+0.22x_{13}$	$+0.68x_3$	$+0.56x_4$	$+0.90x_5$	$+0.90x_6$	$+0.39x_{10}$
x_{17}	-0.0705467372134	$+0.99x_{11}$	$+0.96x_{13}$	$+0.63x_3$	$+0.07x_4$	$+0.60x_5$	$+0.97x_6$	$+0.87x_{10}$
x_{18}	-0.121693121693	$+0.03x_{11}$	$+0.11x_{13}$	$+0.77x_3$	$+0.78x_4$	$+0.88x_5$	$+0.10x_6$	$+0.05x_{10}$
x_{19}	-0.977072310406	$+0.15x_{11}$	$+0.04x_{13}$	$+0.32x_3$	$+0.93x_4$	$+0.36x_5$	$+0.46x_6$	$+0.37x_{10}$
x_{20}	-0.881834215168	$+0.87x_{11}$	$+0.04x_{13}$	$+0.41x_3$	$+0.93x_4$	$+0.45x_5$	$+0.60x_6$	$+0.89x_{10}$
x_{21}	-0.142857142857	$+0.43x_{11}$		$+0.86x_3$		$+0.86x_5$	$+0.29x_6$	$+0.71x_{10}$
z	-2.63668430335	$-0.65x_{11}$	$-0.26x_{13}$	$-16.71x_3$	$-17.48x_4$	$-8.97x_5$	$-1.94x_6$	$-1.19x_{10}$

Forming the dual dictionary:

The Final Dual Dictionary is:

Final primal dictionary obtained:

x_8	2.75	$-0.13x_{11}$	$+0.62x_{13}$	$-1.37x_3$	$+3.63x_4$	$+7.25x_5$	$-8.38x_6$	$+1.12x_{19}$
x_9	15.3942307692	$-0.05x_{11}$	$+0.92x_{13}$	$-11.47x_3$	$-9.04x_4$	$+7.45x_5$	$+12.84x_6$	$-3.79x_{19}$
x_7	1.41346153846	$-0.04x_{11}$	$+0.02x_{13}$	$+1.25x_3$	$+0.60x_4$	$+0.28x_5$	$-0.13x_6$	$+0.35x_{19}$
x_1	2.98076923077	$-0.01x_{11}$	$-0.11x_{13}$	$-0.72x_3$	$+0.36x_4$	$-0.83x_5$	$-0.03x_6$	$-0.14x_{19}$
x_{12}	19.3365384615	$-0.58x_{11}$	$+1.10x_{13}$	$-15.13x_3$	$-26.48x_4$	$-7.03x_5$	$+18.25x_6$	$-3.73x_{19}$
x_2	1.17307692308	$+0.09x_{11}$	$-0.05x_{13}$	$+1.49x_3$	$+1.80x_4$	$+0.44x_5$	$-0.74x_6$	$+0.30x_{19}$
x_{14}	2.24038461538	$-0.13x_{11}$	$+1.07x_{13}$	$-0.24x_3$	$-12.20x_4$	$-3.16x_5$	$-1.39x_6$	$-1.95x_{19}$
x_{15}	0.913461538462	$+0.71x_{11}$	$+0.27x_{13}$	$-0.50x_3$	$-1.15x_4$	$-0.22x_5$	$+0.12x_6$	$+1.60x_{19}$
x_{16}	0.942307692308	$+0.47x_{11}$	$+0.18x_{13}$	$+0.34x_3$	$-0.43x_4$	$+0.52x_5$	$+0.41x_6$	$+1.07x_{19}$
x_{17}	2.25	$+0.62x_{11}$	$+0.88x_{13}$	$-0.12x_3$	$-2.12x_4$	$-0.25x_5$	$-0.13x_6$	$+2.37x_{19}$
x_{18}	0.0192307692308	$+0.01x_{11}$	$+0.11x_{13}$	$+0.72x_3$	$+0.64x_4$	$+0.83x_5$	$+0.03x_6$	$+0.14x_{19}$
x_{10}	2.66346153846	$-0.42x_{11}$	$-0.10x_{13}$	$-0.87x_3$	$-2.52x_4$	$-0.97x_5$	$-1.25x_6$	$+2.73x_{19}$
x_{20}	1.49038461538	$+0.50x_{11}$	$-0.05x_{13}$	$-0.36x_3$	$-1.32x_4$	$-0.41x_5$	$-0.51x_6$	$+2.43x_{19}$
x_{21}	1.75961538462	$+0.13x_{11}$	$-0.07x_{13}$	$+0.24x_3$	$-1.80x_4$	$+0.16x_5$	$-0.61x_6$	$+1.95x_{19}$
z	-5.79807692308	$-0.15x_{11}$	$-0.14x_{13}$	$-15.68x_3$	$-14.49x_4$	$-7.82x_5$	$-0.45x_6$	$-3.24x_{19}$

After cutting plane is added

x_8	2.75	$-0.13x_{11}$	$+0.62x_{13}$	$-1.37x_3$	$+3.63x_4$	$+7.25x_5$	$-8.38x_6$	$+1.12x_{19}$
x_9	15.3942307692	$-0.05x_{11}$	$+0.92x_{13}$	$-11.47x_3$	$-9.04x_4$	$+7.45x_5$	$+12.84x_6$	$-3.79x_{19}$
x_7	1.41346153846	$-0.04x_{11}$	$+0.02x_{13}$	$+1.25x_3$	$+0.60x_4$	$+0.28x_5$	$-0.13x_6$	$+0.35x_{19}$
x_1	2.98076923077	$-0.01x_{11}$	$-0.11x_{13}$	$-0.72x_3$	$+0.36x_4$	$-0.83x_5$	$-0.03x_6$	$-0.14x_{19}$
x_{12}	19.3365384615	$-0.58x_{11}$	$+1.10x_{13}$	$-15.13x_3$	$-26.48x_4$	$-7.03x_5$	$+18.25x_6$	$-3.73x_{19}$
x_2	1.17307692308	$+0.09x_{11}$	$-0.05x_{13}$	$+1.49x_3$	$+1.80x_4$	$+0.44x_5$	$-0.74x_6$	$+0.30x_{19}$
x_{14}	2.24038461538	$-0.13x_{11}$	$+1.07x_{13}$	$-0.24x_3$	$-12.20x_4$	$-3.16x_5$	$-1.39x_6$	$-1.95x_{19}$
x_{15}	0.913461538462	$+0.71x_{11}$	$+0.27x_{13}$	$-0.50x_3$	$-1.15x_4$	$-0.22x_5$	$+0.12x_6$	$+1.60x_{19}$
x_{16}	0.942307692308	$+0.47x_{11}$	$+0.18x_{13}$	$+0.34x_3$	$-0.43x_4$	$+0.52x_5$	$+0.41x_6$	$+1.07x_{19}$
x_{17}	2.25	$+0.62x_{11}$	$+0.88x_{13}$	$-0.12x_3$	$-2.12x_4$	$-0.25x_5$	$-0.13x_6$	$+2.37x_{19}$
x_{18}	0.0192307692308	$+0.01x_{11}$	$+0.11x_{13}$	$+0.72x_3$	$+0.64x_4$	$+0.83x_5$	$+0.03x_6$	$+0.14x_{19}$
x_{10}	2.66346153846	$-0.42x_{11}$	$-0.10x_{13}$	$-0.87x_3$	$-2.52x_4$	$-0.97x_5$	$-1.25x_6$	$+2.73x_{19}$
x_{20}	1.49038461538	$+0.50x_{11}$	$-0.05x_{13}$	$-0.36x_3$	$-1.32x_4$	$-0.41x_5$	$-0.51x_6$	$+2.43x_{19}$
x_{21}	1.75961538462	$+0.13x_{11}$	$-0.07x_{13}$	$+0.24x_3$	$-1.80x_4$	$+0.16x_5$	$-0.61x_6$	$+1.95x_{19}$
x_{22}	-0.75	$+0.13x_{11}$	$+0.38x_{13}$	$+0.37x_3$	$+0.37x_4$	$+0.75x_5$	$+0.38x_6$	$+0.88x_{19}$
x_{23}	-0.394230769231	$+0.05x_{11}$	$+0.08x_{13}$	$+0.47x_3$	$+0.04x_4$	$+0.55x_5$	$+0.16x_6$	$+0.79x_{19}$
x_{24}	-0.413461538462	$+0.04x_{11}$	$+0.98x_{13}$	$+0.75x_3$	$+0.40x_4$	$+0.72x_5$	$+0.13x_6$	$+0.65x_{19}$
x_{25}	-0.980769230769	$+0.01x_{11}$	$+0.11x_{13}$	$+0.72x_3$	$+0.64x_4$	$+0.83x_5$	$+0.03x_6$	$+0.14x_{19}$
x_{26}	-0.336538461538	$+0.58x_{11}$	$+0.90x_{13}$	$+0.13x_3$	$+0.48x_4$	$+0.03x_5$	$+0.75x_6$	$+0.73x_{19}$
x_{27}	-0.173076923077	$+0.91x_{11}$	$+0.05x_{13}$	$+0.51x_3$	$+0.20x_4$	$+0.56x_5$	$+0.74x_6$	$+0.70x_{19}$
x_{28}	-0.240384615385	$+0.13x_{11}$	$+0.93x_{13}$	$+0.24x_3$	$+0.20x_4$	$+0.16x_5$	$+0.39x_6$	$+0.95x_{19}$
x_{29}	-0.913461538462	$+0.29x_{11}$	$+0.73x_{13}$	$+0.50x_3$	$+0.15x_4$	$+0.22x_5$	$+0.88x_6$	$+0.40x_{19}$
x_{30}	-0.942307692308	$+0.53x_{11}$	$+0.82x_{13}$	$+0.66x_3$	$+0.43x_4$	$+0.48x_5$	$+0.59x_6$	$+0.93x_{19}$
x_{31}	-0.25	$+0.38x_{11}$	$+0.12x_{13}$	$+0.12x_3$	$+0.12x_4$	$+0.25x_5$	$+0.13x_6$	$+0.63x_{19}$
x_{32}	-0.0192307692308	$+0.99x_{11}$	$+0.89x_{13}$	$+0.28x_3$	$+0.36x_4$	$+0.17x_5$	$+0.97x_6$	$+0.86x_{19}$
x_{33}	-0.663461538462	$+0.42x_{11}$	$+0.10x_{13}$	$+0.87x_3$	$+0.52x_4$	$+0.97x_5$	$+0.25x_6$	$+0.27x_{19}$
x_{34}	-0.490384615385	$+0.50x_{11}$	$+0.05x_{13}$	$+0.36x_3$	$+0.32x_4$	$+0.41x_5$	$+0.51x_6$	$+0.57x_{19}$
x_{35}	-0.759615384615	$+0.87x_{11}$	$+0.07x_{13}$	$+0.76x_3$	$+0.80x_4$	$+0.84x_5$	$+0.61x_6$	$+0.05x_{19}$
z	-5.79807692308	$-0.15x_{11}$	$-0.14x_{13}$	$-15.68x_3$	$-14.49x_4$	$-7.82x_5$	$-0.45x_6$	$-3.24x_{19}$

Forming the dual dictionary:

The Final Dual Dictionary is:

Final primal dictionary obtained:

		x_{35}	x_{25}	x_3	x_4	x_5	x_6	x_{19}
x_8	8.52631578947	$-0.21x_{35}$	$+6.05x_{25}$	$-5.58x_3$	$-0.11x_4$	$+2.42x_5$	$-8.42x_6$	$+0.26x_{19}$
x_9	23.8947368421	$-0.16x_{35}$	$+8.79x_{25}$	$-17.68x_3$	$-14.58x_4$	$+0.32x_5$	$+12.68x_6$	$-5.05x_{19}$
x_7	1.63157894737	$-0.05x_{35}$	$+0.26x_{25}$	$+1.11x_3$	$+0.47x_4$	$+0.11x_5$	$-0.11x_6$	$+0.32x_{19}$
x_1	2.0		$-1.00x_{25}$		$+1.00x_4$			
x_{12}	29.4736842105	$-0.79x_{35}$	$+10.95x_{25}$	$-22.42x_3$	$-32.89x_4$	$-15.42x_5$	$+18.42x_6$	$-5.26x_{19}$
x_2	0.736842105263	$+0.11x_{35}$	$-0.53x_{25}$	$+1.79x_3$	$+2.05x_4$	$+0.79x_5$	$-0.79x_6$	$+0.37x_{19}$
x_{14}	12.1578947368	$-0.26x_{35}$	$+10.32x_{25}$	$-7.47x_3$	$-18.63x_4$	$-11.47x_5$	$-1.53x_6$	$-3.42x_{19}$
x_{15}	3.52631578947	$+0.79x_{35}$	$+2.05x_{25}$	$-2.58x_3$	$-3.11x_4$	$-2.58x_5$	$-0.42x_6$	$+1.26x_{19}$
x_{16}	2.68421052632	$+0.53x_{35}$	$+1.37x_{25}$	$-1.05x_3$	$-1.74x_4$	$-1.05x_5$	$+0.05x_6$	$+0.84x_{19}$
x_{17}	10.4210526316	$+0.63x_{35}$	$+7.84x_{25}$	$-6.26x_3$	$-7.68x_4$	$-7.26x_5$	$-0.74x_6$	$+1.21x_{19}$
x_{18}	1.0		$+1.00x_{25}$					
x_{10}	1.68421052632	$-0.47x_{35}$	$-0.63x_{25}$	$-0.05x_3$	$-1.74x_4$	$-0.05x_5$	$-0.95x_6$	$+2.84x_{19}$
x_{20}	1.05263157895	$+0.58x_{35}$	$-0.89x_{25}$	$-0.16x_3$	$-1.21x_4$	$-0.16x_5$	$-0.84x_6$	$+2.53x_{19}$
x_{21}	1.10526315789	$+0.16x_{35}$	$-0.79x_{25}$	$+0.68x_3$	$-1.42x_4$	$+0.68x_5$	$-0.68x_6$	$+2.05x_{19}$
x_{13}	9.26315789474	$-0.11x_{35}$	$+9.53x_{25}$	$-6.79x_3$	$-6.05x_4$	$-7.79x_5$	$-0.21x_6$	$-1.37x_{19}$
x_{22}	2.73684210526	$+0.11x_{35}$	$+3.47x_{25}$	$-2.21x_3$	$-1.95x_4$	$-2.21x_5$	$+0.21x_6$	$+0.37x_{19}$
x_{24}	8.63157894737	$-0.05x_{35}$	$+9.26x_{25}$	$-5.89x_3$	$-5.53x_4$	$-6.89x_5$	$-0.11x_6$	$-0.68x_{19}$
x_{23}	0.368421052632	$+0.05x_{35}$	$+0.74x_{25}$	$-0.11x_3$	$-0.47x_4$	$-0.11x_5$	$+0.11x_6$	$+0.68x_{19}$
x_{26}	8.05263157895	$+0.58x_{35}$	$+8.11x_{25}$	$-6.16x_3$	$-5.21x_4$	$-7.16x_5$	$+0.16x_6$	$-0.47x_{19}$
x_{27}	0.368421052632	$+1.05x_{35}$	$-0.26x_{25}$	$-0.11x_3$	$-0.47x_4$	$-0.11x_5$	$+0.11x_6$	$+0.68x_{19}$
x_{28}	8.36842105263	$+0.05x_{35}$	$+8.74x_{25}$	$-6.11x_3$	$-5.47x_4$	$-7.11x_5$	$+0.11x_6$	$-0.32x_{19}$
x_{29}	5.84210526316	$+0.26x_{35}$	$+6.68x_{25}$	$-4.53x_3$	$-4.37x_4$	$-5.53x_5$	$+0.53x_6$	$-0.58x_{19}$
x_{30}	6.68421052632	$+0.53x_{35}$	$+7.37x_{25}$	$-5.05x_3$	$-4.74x_4$	$-6.05x_5$	$+0.05x_6$	$-0.16x_{19}$
x_{31}	0.947368421053	$+0.42x_{35}$	$+0.89x_{25}$	$-0.84x_3$	$-0.79x_4$	$-0.84x_5$	$-0.16x_6$	$+0.47x_{19}$
x_{32}	8.36842105263	$+1.05x_{35}$	$+7.74x_{25}$	$-6.11x_3$	$-5.47x_4$	$-7.11x_5$	$+0.11x_6$	$-0.32x_{19}$
x_{33}	0.315789473684	$+0.47x_{35}$	$+0.63x_{25}$	$+0.05x_3$	$-0.26x_4$	$+0.05x_5$	$-0.05x_6$	$+0.16x_{19}$
x_{34}	0.0526315789474	$+0.58x_{35}$	$+0.11x_{25}$	$-0.16x_3$	$-0.21x_4$	$-0.16x_5$	$+0.16x_6$	$+0.53x_{19}$
x_{11}	0.105263157895	$+1.16x_{35}$	$-0.79x_{25}$	$-0.32x_3$	$-0.42x_4$	$-0.32x_5$	$-0.68x_6$	$+0.05x_{19}$
z	-7.10526315789	$-0.16x_{35}$	$-1.21x_{25}$	$-14.68x_3$	$-13.58x_4$	$-6.68x_5$	$-0.32x_6$	$-3.05x_{19}$

After cutting plane is added

		x_{35}	x_{25}	x_3	x_4	x_5	x_6	x_{19}
x_8	8.52631578947	$-0.21x_{35}$	$+6.05x_{25}$	$-5.58x_3$	$-0.11x_4$	$+2.42x_5$	$-8.42x_6$	$+0.26x_{19}$
x_9	23.8947368421	$-0.16x_{35}$	$+8.79x_{25}$	$-17.68x_3$	$-14.58x_4$	$+0.32x_5$	$+12.68x_6$	$-5.05x_{19}$
x_7	1.63157894737	$-0.05x_{35}$	$+0.26x_{25}$	$+1.11x_3$	$+0.47x_4$	$+0.11x_5$	$-0.11x_6$	$+0.32x_{19}$
x_1	2.0		$-1.00x_{25}$		$+1.00x_4$			
x_{12}	29.4736842105	$-0.79x_{35}$	$+10.95x_{25}$	$-22.42x_3$	$-32.89x_4$	$-15.42x_5$	$+18.42x_6$	$-5.26x_{19}$
x_2	0.736842105263	$+0.11x_{35}$	$-0.53x_{25}$	$+1.79x_3$	$+2.05x_4$	$+0.79x_5$	$-0.79x_6$	$+0.37x_{19}$
x_{14}	12.1578947368	$-0.26x_{35}$	$+10.32x_{25}$	$-7.47x_3$	$-18.63x_4$	$-11.47x_5$	$-1.53x_6$	$-3.42x_{19}$
x_{15}	3.52631578947	$+0.79x_{35}$	$+2.05x_{25}$	$-2.58x_3$	$-3.11x_4$	$-2.58x_5$	$-0.42x_6$	$+1.26x_{19}$
x_{16}	2.68421052632	$+0.53x_{35}$	$+1.37x_{25}$	$-1.05x_3$	$-1.74x_4$	$-1.05x_5$	$+0.05x_6$	$+0.84x_{19}$
x_{17}	10.4210526316	$+0.63x_{35}$	$+7.84x_{25}$	$-6.26x_3$	$-7.68x_4$	$-7.26x_5$	$-0.74x_6$	$+1.21x_{19}$
x_{18}	1.0		$+1.00x_{25}$					
x_{10}	1.68421052632	$-0.47x_{35}$	$-0.63x_{25}$	$-0.05x_3$	$-1.74x_4$	$-0.05x_5$	$-0.95x_6$	$+2.84x_{19}$
x_{20}	1.05263157895	$+0.58x_{35}$	$-0.89x_{25}$	$-0.16x_3$	$-1.21x_4$	$-0.16x_5$	$-0.84x_6$	$+2.53x_{19}$
x_{21}	1.10526315789	$+0.16x_{35}$	$-0.79x_{25}$	$+0.68x_3$	$-1.42x_4$	$+0.68x_5$	$-0.68x_6$	$+2.05x_{19}$
x_{13}	9.26315789474	$-0.11x_{35}$	$+9.53x_{25}$	$-6.79x_3$	$-6.05x_4$	$-7.79x_5$	$-0.21x_6$	$-1.37x_{19}$
x_{22}	2.73684210526	$+0.11x_{35}$	$+3.47x_{25}$	$-2.21x_3$	$-1.95x_4$	$-2.21x_5$	$+0.21x_6$	$+0.37x_{19}$
x_{24}	8.63157894737	$-0.05x_{35}$	$+9.26x_{25}$	$-5.89x_3$	$-5.53x_4$	$-6.89x_5$	$-0.11x_6$	$-0.68x_{19}$
x_{23}	0.368421052632	$+0.05x_{35}$	$+0.74x_{25}$	$-0.11x_3$	$-0.47x_4$	$-0.11x_5$	$+0.11x_6$	$+0.68x_{19}$
x_{26}	8.05263157895	$+0.58x_{35}$	$+8.11x_{25}$	$-6.16x_3$	$-5.21x_4$	$-7.16x_5$	$+0.16x_6$	$-0.47x_{19}$
x_{27}	0.368421052632	$+1.05x_{35}$	$-0.26x_{25}$	$-0.11x_3$	$-0.47x_4$	$-0.11x_5$	$+0.11x_6$	$+0.68x_{19}$
x_{28}	8.36842105263	$+0.05x_{35}$	$+8.74x_{25}$	$-6.11x_3$	$-5.47x_4$	$-7.11x_5$	$+0.11x_6$	$-0.32x_{19}$
x_{29}	5.84210526316	$+0.26x_{35}$	$+6.68x_{25}$	$-4.53x_3$	$-4.37x_4$	$-5.53x_5$	$+0.53x_6$	$-0.58x_{19}$
x_{30}	6.68421052632	$+0.53x_{35}$	$+7.37x_{25}$	$-5.05x_3$	$-4.74x_4$	$-6.05x_5$	$+0.05x_6$	$-0.16x_{19}$
x_{31}	0.947368421053	$+0.42x_{35}$	$+0.89x_{25}$	$-0.84x_3$	$-0.79x_4$	$-0.84x_5$	$-0.16x_6$	$+0.47x_{19}$
x_{32}	8.36842105263	$+1.05x_{35}$	$+7.74x_{25}$	$-6.11x_3$	$-5.47x_4$	$-7.11x_5$	$+0.11x_6$	$-0.32x_{19}$
x_{33}	0.315789473684	$+0.47x_{35}$	$+0.63x_{25}$	$+0.05x_3$	$-0.26x_4$	$+0.05x_5$	$-0.05x_6$	$+0.16x_{19}$
x_{34}	0.0526315789474	$+0.58x_{35}$	$+0.11x_{25}$	$-0.16x_3$	$-0.21x_4$	$-0.16x_5$	$+0.16x_6$	$+0.53x_{19}$
x_{11}	0.105263157895	$+1.16x_{35}$	$-0.79x_{25}$	$-0.32x_3$	$-0.42x_4$	$-0.32x_5$	$-0.68x_6$	$+0.05x_{19}$
x_{36}	-0.526315789474	$+0.21x_{35}$	$+0.95x_{25}$	$+0.58x_3$	$+0.11x_4$	$+0.58x_5$	$+0.42x_6$	$+0.74x_{19}$
x_{37}	-0.894736842105	$+0.16x_{35}$	$+0.21x_{25}$	$+0.68x_3$	$+0.58x_4$	$+0.68x_5$	$+0.32x_6$	$+0.05x_{19}$
x_{38}	-0.631578947368	$+0.05x_{35}$	$+0.74x_{25}$	$+0.89x_3$	$+0.53x_4$	$+0.89x_5$	$+0.11x_6$	$+0.68x_{19}$
x_{39}	-0.473684210526	$+0.79x_{35}$	$+0.05x_{25}$	$+0.42x_3$	$+0.89x_4$	$+0.42x_5$	$+0.58x_6$	$+0.26x_{19}$
x_{40}	-0.736842105263	$+0.89x_{35}$	$+0.53x_{25}$	$+0.21x_3$	$+0.95x_4$	$+0.21x_5$	$+0.79x_6$	$+0.63x_{19}$
x_{41}	-0.157894736842	$+0.26x_{35}$	$+0.68x_{25}$	$+0.47x_3$	$+0.63x_4$	$+0.47x_5$	$+0.53x_6$	$+0.42x_{19}$
x_{42}	-0.526315789474	$+0.21x_{35}$	$+0.95x_{25}$	$+0.58x_3$	$+0.11x_4$	$+0.58x_5$	$+0.42x_6$	$+0.74x_{19}$
x_{43}	-0.684210526316	$+0.47x_{35}$	$+0.63x_{25}$	$+0.05x_3$	$+0.74x_4$	$+0.05x_5$	$+0.95x_6$	$+0.16x_{19}$
x_{44}	-0.421052631579	$+0.37x_{35}$	$+0.16x_{25}$	$+0.26x_3$	$+0.68x_4$	$+0.26x_5$	$+0.74x_6$	$+0.79x_{19}$
x_{45}	-0.684210526316	$+0.47x_{35}$	$+0.63x_{25}$	$+0.05x_3$	$+0.74x_4$	$+0.05x_5$	$+0.95x_6$	$+0.16x_{19}$
x_{46}	-0.0526315789474	$+0.42x_{35}$	$+0.89x_{25}$	$+0.16x_3$	$+0.21x_4$	$+0.16x_5$	$+0.84x_6$	$+0.47x_{19}$
x_{47}	-0.105263157895	$+0.84x_{35}$	$+0.79x_{25}$	$+0.32x_3$	$+0.42x_4$	$+0.32x_5$	$+0.68x_6$	$+0.95x_{19}$
x_{48}	-0.263157894737	$+0.11x_{35}$	$+0.47x_{25}$	$+0.79x_3$	$+0.05x_4$	$+0.79x_5$	$+0.21x_6$	$+0.37x_{19}$
x_{49}	-0.736842105263	$+0.89x_{35}$	$+0.53x_{25}$	$+0.21x_3$	$+0.95x_4$	$+0.21x_5$	$+0.79x_6$	$+0.63x_{19}$
x_{50}	-0.631578947368	$+0.05x_{35}$	$+0.74x_{25}$	$+0.89x_3$	$+0.53x_4$	$+0.89x_5$	$+0.11x_6$	$+0.68x_{19}$
x_{51}	-0.368421052632	$+0.95x_{35}$	$+0.26x_{25}$	$+0.11x_3$	$+0.47x_4$	$+0.11x_5$	$+0.89x_6$	$+0.32x_{19}$
x_{52}	-0.0526315789474	$+0.42x_{35}$	$+0.89x_{25}$	$+0.16x_3$	$+0.21x_4$	$+0.16x_5$	$+0.84x_6$	$+0.47x_{19}$
x_{53}	-0.368421052632	$+0.95x_{35}$	$+0.26x_{25}$	$+0.11x_3$	$+0.47x_4$	$+0.11x_5$	$+0.89x_6$	$+0.32x_{19}$
x_{54}	-0.368421052632	$+0.95x_{35}$	$+0.26x_{25}$	$+0.11x_3$	$+0.47x_4$	$+0.11x_5$	$+0.89x_6$	$+0.32x_{19}$
x_{55}	-0.842105263158	$+0.74x_{35}$	$+0.32x_{25}$	$+0.53x_3$	$+0.37x_4$	$+0.53x_5$	$+0.47x_6$	$+0.58x_{19}$
x_{56}	-0.684210526316	$+0.47x_{35}$	$+0.63x_{25}$	$+0.05x_3$	$+0.74x_4$	$+0.05x_5$	$+0.95x_6$	$+0.16x_{19}$
x_{57}	-0.947368421053	$+0.58x_{35}$	$+0.11x_{25}$	$+0.84x_3$	$+0.79x_4$	$+0.84x_5$	$+0.16x_6$	$+0.53x_{19}$
x_{58}	-0.368421052632	$+0.95x_{35}$	$+0.26x_{25}$	$+0.11x_3$	$+0.47x_4$	$+0.11x_5$	$+0.89x_6$	$+0.32x_{19}$
x_{59}	-0.315789473684	$+0.53x_{35}$	$+0.37x_{25}$	$+0.95x_3$	$+0.26x_4$	$+0.95x_5$	$+0.05x_6$	$+0.84x_{19}$
x_{60}	-0.0526315789474	$+0.42x_{35}$	$+0.89x_{25}$	$+0.16x_3$	$+0.21x_4$	$+0.16x_5$	$+0.84x_6$	$+0.47x_{19}$
x_{61}	-0.105263157895	$+0.84x_{35}$	$+0.79x_{25}$	$+0.32x_3$	$+0.42x_4$	$+0.32x_5$	$+0.68x_6$	$+0.95x_{19}$
z	-7.10526315789	$-0.16x_{35}$	$-1.21x_{25}$	$-14.68x_3$	$-13.58x_4$	$-6.68x_5$	$-0.32x_6$	$-3.05x_{19}$

Forming the dual dictionary:
    The Final Dual Dictionary is:

Final primal dictionary obtained:

x_2	0.270833333333	$+0.12x_8$	$-2.19x_{38}$	$+2.21x_3$	$+2.31x_4$	$+0.21x_5$	$+3.31x_{37}$	$+0.58x_{10}$
x_9	36.6458333333	$-1.62x_8$	$+28.94x_{38}$	$-28.04x_3$	$-22.56x_4$	$+2.96x_5$	$-36.56x_{37}$	$-7.92x_{10}$
x_7	1.5	$+0.00x_8$	$+0.50x_{38}$	$+1.00x_3$	$+0.50x_4$	$+0.00x_5$	$-0.50x_{37}$	$-0.00x_{10}$
x_1	1.83333333333	$-0.00x_8$	$-1.50x_{38}$	$+0.33x_3$	$+1.50x_4$	$+0.33x_5$	$+1.50x_{37}$	$+0.33x_{10}$
x_{12}	46.5833333333	$-2.50x_8$	$+41.75x_{38}$	$-37.17x_3$	$-42.25x_4$	$-10.17x_5$	$-54.25x_{37}$	$-10.67x_{10}$
x_{35}	3.20833333333	$+0.25x_8$	$-4.38x_{38}$	$-1.92x_3$	$-2.38x_4$	$-3.92x_5$	$+10.63x_{37}$	$+0.83x_{10}$
x_{14}	10.2708333333	$+0.13x_8$	$+14.81x_{38}$	$-6.79x_3$	$-22.69x_4$	$-11.79x_5$	$-19.69x_{37}$	$-4.42x_{10}$
x_{15}	6.375	$+0.25x_8$	$-0.88x_{38}$	$-5.25x_3$	$-5.88x_4$	$-7.25x_5$	$+7.13x_{37}$	$+0.50x_{10}$
x_{16}	4.9375	$+0.12x_8$	$-0.19x_{38}$	$-3.13x_3$	$-3.69x_4$	$-4.13x_5$	$+4.31x_{37}$	$+0.25x_{10}$
x_{17}	13.375	$+0.25x_8$	$+8.13x_{38}$	$-10.25x_3$	$-12.87x_4$	$-13.25x_5$	$-2.88x_{37}$	$-1.50x_{10}$
x_{18}	1.16666666667	$+0.00x_8$	$+1.50x_{38}$	$-0.33x_3$	$-0.50x_4$	$-0.33x_5$	$-1.50x_{37}$	$-0.33x_{10}$
x_{19}	0.333333333333	$-0.00x_8$	$-0.00x_{38}$	$-0.67x_3$	$-0.00x_4$	$-0.67x_5$	$+1.00x_{37}$	$+0.33x_{10}$
x_{20}	2.70833333333	$+0.25x_8$	$-4.88x_{38}$	$-1.92x_3$	$-1.88x_4$	$-3.92x_5$	$+11.13x_{37}$	$+1.83x_{10}$
x_{21}	1.4375	$+0.12x_8$	$-2.69x_{38}$	$-0.13x_3$	$-1.19x_4$	$-1.13x_5$	$+5.81x_{37}$	$+1.25x_{10}$
x_{13}	9.83333333333	$+0.00x_8$	$+14.50x_{38}$	$-8.67x_3$	$-10.50x_4$	$-9.67x_5$	$-16.50x_{37}$	$-3.67x_{10}$
x_{22}	4.0	$+0.00x_8$	$+5.00x_{38}$	$-4.00x_3$	$-4.00x_4$	$-4.00x_5$	$-4.00x_{37}$	$-1.00x_{10}$
x_{24}	9.66666666667	$+0.00x_8$	$+14.00x_{38}$	$-8.33x_3$	$-10.00x_4$	$-9.33x_5$	$-15.00x_{37}$	$-3.33x_{10}$
x_{23}	1.0	$+0.00x_8$	$+1.00x_{38}$	$-1.00x_3$	$-1.00x_4$	$-1.00x_5$	$-0.00x_{37}$	$-0.00x_{10}$
x_{26}	11.2708333333	$+0.13x_8$	$+9.81x_{38}$	$-9.79x_3$	$-10.69x_4$	$-11.79x_5$	$-6.69x_{37}$	$-2.42x_{10}$
x_{27}	4.04166666667	$+0.25x_8$	$-4.88x_{38}$	$-2.58x_3$	$-2.88x_4$	$-4.58x_5$	$+12.13x_{37}$	$+1.17x_{10}$
x_{28}	10.0	$+0.00x_8$	$+13.00x_{38}$	$-9.00x_3$	$-10.00x_4$	$-10.00x_5$	$-13.00x_{37}$	$-3.00x_{10}$
x_{29}	8.16666666667	$+0.00x_8$	$+9.50x_{38}$	$-7.33x_3$	$-8.50x_4$	$-8.33x_5$	$-8.50x_{37}$	$-2.33x_{10}$
x_{30}	9.60416666667	$+0.13x_8$	$+8.81x_{38}$	$-8.46x_3$	$-9.69x_4$	$-10.46x_5$	$-5.69x_{37}$	$-2.08x_{10}$
x_{31}	2.4375	$+0.12x_8$	$-0.69x_{38}$	$-2.13x_3$	$-2.19x_4$	$-3.13x_5$	$+3.81x_{37}$	$+0.25x_{10}$
x_{32}	13.0416666667	$+0.25x_8$	$+7.13x_{38}$	$-10.58x_3$	$-11.87x_4$	$-13.58x_5$	$-0.88x_{37}$	$-1.83x_{10}$
x_{33}	1.9375	$+0.12x_8$	$-1.19x_{38}$	$-1.13x_3$	$-1.69x_4$	$-2.13x_5$	$+4.31x_{37}$	$+0.25x_{10}$
x_{34}	2.27083333333	$+0.12x_8$	$-2.19x_{38}$	$-1.79x_3$	$-1.69x_4$	$-2.79x_5$	$+6.31x_{37}$	$+0.58x_{10}$
x_{11}	2.97916666667	$+0.37x_8$	$-7.06x_{38}$	$-1.71x_3$	$-2.56x_4$	$-4.71x_5$	$+14.44x_{37}$	$+1.42x_{10}$
x_6	1.0625	$-0.12x_8$	$+1.19x_{38}$	$-0.87x_3$	$-0.31x_4$	$+0.13x_5$	$-1.31x_{37}$	$-0.25x_{10}$
x_{36}	1.0	$-0.00x_8$	$+1.00x_{38}$	$-1.00x_3$	$-1.00x_4$	$-1.00x_5$	$+1.00x_{37}$	$+0.00x_{10}$
x_{25}	0.166666666667	$+0.00x_8$	$+1.50x_{38}$	$-0.33x_3$	$-0.50x_4$	$-0.33x_5$	$-1.50x_{37}$	$-0.33x_{10}$
x_{39}	2.77083333333	$+0.12x_8$	$-2.69x_{38}$	$-1.79x_3$	$-1.19x_4$	$-2.79x_5$	$+7.81x_{37}$	$+0.58x_{10}$
x_{40}	3.27083333333	$+0.12x_8$	$-2.19x_{38}$	$-2.79x_3$	$-1.69x_4$	$-3.79x_5$	$+8.31x_{37}$	$+0.58x_{10}$
x_{41}	1.5	$+0.00x_8$	$+0.50x_{38}$	$-1.00x_3$	$-0.50x_4$	$-1.00x_5$	$+1.50x_{37}$	$+0.00x_{10}$
x_{42}	1.0	$-0.00x_8$	$+1.00x_{38}$	$-1.00x_3$	$-1.00x_4$	$-1.00x_5$	$+1.00x_{37}$	$+0.00x_{10}$
x_{43}	2.0	$-0.00x_8$	$-0.00x_{38}$	$-2.00x_3$	$-1.00x_4$	$-2.00x_5$	$+3.00x_{37}$	$+0.00x_{10}$
x_{44}	1.83333333333	$-0.00x_8$	$-0.50x_{38}$	$-1.67x_3$	$-0.50x_4$	$-1.67x_5$	$+3.50x_{37}$	$+0.33x_{10}$
x_{45}	2.0	$-0.00x_8$	$-0.00x_{38}$	$-2.00x_3$	$-1.00x_4$	$-2.00x_5$	$+3.00x_{37}$	$+0.00x_{10}$
x_{46}	2.5	$-0.00x_8$	$+0.50x_{38}$	$-2.00x_3$	$-1.50x_4$	$-2.00x_5$	$+2.50x_{37}$	$+0.00x_{10}$
x_{47}	3.77083333333	$+0.12x_8$	$-1.69x_{38}$	$-2.79x_3$	$-2.19x_4$	$-3.79x_5$	$+7.81x_{37}$	$+0.58x_{10}$
x_{48}	0.5	$-0.00x_8$	$+0.50x_{38}$	$+0.00x_3$	$-0.50x_4$	$+0.00x_5$	$+0.50x_{37}$	$+0.00x_{10}$
x_{49}	3.27083333333	$+0.12x_8$	$-2.19x_{38}$	$-2.79x_3$	$-1.69x_4$	$-3.79x_5$	$+8.31x_{37}$	$+0.58x_{10}$
x_{50}	$-1.12687636999e-14$	$+0.00x_8$	$+1.00x_{38}$	$+0.00x_3$	$+0.00x_4$	$+0.00x_5$	$-0.00x_{37}$	$-0.00x_{10}$
x_{51}	3.77083333333	$+0.12x_8$	$-2.69x_{38}$	$-2.79x_3$	$-2.19x_4$	$-3.79x_5$	$+8.81x_{37}$	$+0.58x_{10}$
x_{52}	2.5	$-0.00x_8$	$+0.50x_{38}$	$-2.00x_3$	$-1.50x_4$	$-2.00x_5$	$+2.50x_{37}$	$+0.00x_{10}$
x_{53}	3.77083333333	$+0.12x_8$	$-2.69x_{38}$	$-2.79x_3$	$-2.19x_4$	$-3.79x_5$	$+8.81x_{37}$	$+0.58x_{10}$
x_{54}	3.77083333333	$+0.12x_8$	$-2.69x_{38}$	$-2.79x_3$	$-2.19x_4$	$-3.79x_5$	$+8.81x_{37}$	$+0.58x_{10}$
x_{55}	2.27083333333	$+0.12x_8$	$-2.19x_{38}$	$-1.79x_3$	$-1.69x_4$	$-2.79x_5$	$+7.31x_{37}$	$+0.58x_{10}$
x_{56}	2.0	$-0.00x_8$	$-0.00x_{38}$	$-2.00x_3$	$-1.00x_4$	$-2.00x_5$	$+3.00x_{37}$	$+0.00x_{10}$
x_{57}	1.27083333333	$+0.12x_8$	$-2.19x_{38}$	$-0.79x_3$	$-0.69x_4$	$-1.79x_5$	$+6.31x_{37}$	$+0.58x_{10}$
x_{58}	3.77083333333	$+0.12x_8$	$-2.69x_{38}$	$-2.79x_3$	$-2.19x_4$	$-3.79x_5$	$+8.81x_{37}$	$+0.58x_{10}$
x_{59}	1.77083333333	$+0.12x_8$	$-1.69x_{38}$	$-0.79x_3$	$-1.19x_4$	$-1.79x_5$	$+5.81x_{37}$	$+0.58x_{10}$
x_{60}	2.5	$-0.00x_8$	$+0.50x_{38}$	$-2.00x_3$	$-1.50x_4$	$-2.00x_5$	$+2.50x_{37}$	$+0.00x_{10}$
x_{61}	3.77083333333	$+0.12x_8$	$-1.69x_{38}$	$-2.79x_3$	$-2.19x_4$	$-3.79x_5$	$+7.81x_{37}$	$+0.58x_{10}$
z	-9.16666666667	$+0.00x_8$	$-1.50x_{38}$	$-11.67x_3$	$-12.50x_4$	$-3.67x_5$	$-2.50x_{37}$	$-0.67x_{10}$

After cutting plane is added

		x_8	x_{38}	x_3	x_4	x_5	x_{37}	x_{10}
x_2	0.270833333333	$+0.12x_8$	$-2.19x_{38}$	$+2.21x_3$	$+2.31x_4$	$+0.21x_5$	$+3.31x_{37}$	$+0.58x_{10}$
x_9	36.6458333333	$-1.62x_8$	$+28.94x_{38}$	$-28.04x_3$	$-22.56x_4$	$+2.96x_5$	$-36.56x_{37}$	$-7.92x_{10}$
x_7	1.5	$+0.00x_8$	$+0.50x_{38}$	$+1.00x_3$	$+0.50x_4$	$+0.00x_5$	$-0.50x_{37}$	$-0.00x_{10}$
x_1	1.83333333333	$-0.00x_8$	$-1.50x_{38}$	$+0.33x_3$	$+1.50x_4$	$+0.33x_5$	$+1.50x_{37}$	$+0.33x_{10}$
x_{12}	46.5833333333	$-2.50x_8$	$+41.75x_{38}$	$-37.17x_3$	$-42.25x_4$	$-10.17x_5$	$-54.25x_{37}$	$-10.67x_{10}$
x_{35}	3.20833333333	$+0.25x_8$	$-4.38x_{38}$	$-1.92x_3$	$-2.38x_4$	$-3.92x_5$	$+10.63x_{37}$	$+0.83x_{10}$
x_{14}	10.2708333333	$+0.13x_8$	$+14.81x_{38}$	$-6.79x_3$	$-22.69x_4$	$-11.79x_5$	$-19.69x_{37}$	$-4.42x_{10}$
x_{15}	6.375	$+0.25x_8$	$-0.88x_{38}$	$-5.25x_3$	$-5.88x_4$	$-7.25x_5$	$+7.13x_{37}$	$+0.50x_{10}$
x_{16}	4.9375	$+0.12x_8$	$-0.19x_{38}$	$-3.13x_3$	$-3.69x_4$	$-4.13x_5$	$+4.31x_{37}$	$+0.25x_{10}$
x_{17}	13.375	$+0.25x_8$	$+8.13x_{38}$	$-10.25x_3$	$-12.87x_4$	$-13.25x_5$	$-2.88x_{37}$	$-1.50x_{10}$
x_{18}	1.16666666667	$+0.00x_8$	$+1.50x_{38}$	$-0.33x_3$	$-0.50x_4$	$-0.33x_5$	$-1.50x_{37}$	$-0.33x_{10}$
x_{19}	0.333333333333	$-0.00x_8$	$-0.00x_{38}$	$-0.67x_3$	$-0.00x_4$	$-0.67x_5$	$+1.00x_{37}$	$+0.33x_{10}$
x_{20}	2.70833333333	$+0.25x_8$	$-4.88x_{38}$	$-1.92x_3$	$-1.88x_4$	$-3.92x_5$	$+11.13x_{37}$	$+1.83x_{10}$
x_{21}	1.4375	$+0.12x_8$	$-2.69x_{38}$	$-0.13x_3$	$-1.19x_4$	$-1.13x_5$	$+5.81x_{37}$	$+1.25x_{10}$
x_{13}	9.83333333333	$+0.00x_8$	$+14.50x_{38}$	$-8.67x_3$	$-10.50x_4$	$-9.67x_5$	$-16.50x_{37}$	$-3.67x_{10}$
x_{22}	4.0	$+0.00x_8$	$+5.00x_{38}$	$-4.00x_3$	$-4.00x_4$	$-4.00x_5$	$-4.00x_{37}$	$-1.00x_{10}$
x_{24}	9.66666666667	$+0.00x_8$	$+14.00x_{38}$	$-8.33x_3$	$-10.00x_4$	$-9.33x_5$	$-15.00x_{37}$	$-3.33x_{10}$
x_{23}	1.0	$+0.00x_8$	$+1.00x_{38}$	$-1.00x_3$	$-1.00x_4$	$-1.00x_5$	$-0.00x_{37}$	$-0.00x_{10}$
x_{26}	11.2708333333	$+0.13x_8$	$+9.81x_{38}$	$-9.79x_3$	$-10.69x_4$	$-11.79x_5$	$-6.69x_{37}$	$-2.42x_{10}$
x_{27}	4.04166666667	$+0.25x_8$	$-4.88x_{38}$	$-2.58x_3$	$-2.88x_4$	$-4.58x_5$	$+12.13x_{37}$	$+1.17x_{10}$
x_{28}	10.0	$+0.00x_8$	$+13.00x_{38}$	$-9.00x_3$	$-10.00x_4$	$-10.00x_5$	$-13.00x_{37}$	$-3.00x_{10}$
x_{29}	8.16666666667	$+0.00x_8$	$+9.50x_{38}$	$-7.33x_3$	$-8.50x_4$	$-8.33x_5$	$-8.50x_{37}$	$-2.33x_{10}$
x_{30}	9.60416666667	$+0.13x_8$	$+8.81x_{38}$	$-8.46x_3$	$-9.69x_4$	$-10.46x_5$	$-5.69x_{37}$	$-2.08x_{10}$
x_{31}	2.4375	$+0.12x_8$	$-0.69x_{38}$	$-2.13x_3$	$-2.19x_4$	$-3.13x_5$	$+3.81x_{37}$	$+0.25x_{10}$
x_{32}	13.0416666667	$+0.25x_8$	$+7.13x_{38}$	$-10.58x_3$	$-11.87x_4$	$-13.58x_5$	$-0.88x_{37}$	$-1.83x_{10}$
x_{33}	1.9375	$+0.12x_8$	$-1.19x_{38}$	$-1.13x_3$	$-1.69x_4$	$-2.13x_5$	$+4.31x_{37}$	$+0.25x_{10}$
x_{34}	2.27083333333	$+0.12x_8$	$-2.19x_{38}$	$-1.79x_3$	$-1.69x_4$	$-2.79x_5$	$+6.31x_{37}$	$+0.58x_{10}$
x_{11}	2.97916666667	$+0.37x_8$	$-7.06x_{38}$	$-1.71x_3$	$-2.56x_4$	$-4.71x_5$	$+14.44x_{37}$	$+1.42x_{10}$
x_6	1.0625	$-0.12x_8$	$+1.19x_{38}$	$-0.87x_3$	$-0.31x_4$	$+0.13x_5$	$-1.31x_{37}$	$-0.25x_{10}$
x_{36}	1.0	$-0.00x_8$	$+1.00x_{38}$	$-1.00x_3$	$-1.00x_4$	$-1.00x_5$	$+1.00x_{37}$	$+0.00x_{10}$
x_{25}	0.166666666667	$+0.00x_8$	$+1.50x_{38}$	$-0.33x_3$	$-0.50x_4$	$-0.33x_5$	$-1.50x_{37}$	$-0.33x_{10}$
x_{39}	2.77083333333	$+0.12x_8$	$-2.69x_{38}$	$-1.79x_3$	$-1.19x_4$	$-2.79x_5$	$+7.81x_{37}$	$+0.58x_{10}$
x_{40}	3.27083333333	$+0.12x_8$	$-2.19x_{38}$	$-2.79x_3$	$-1.69x_4$	$-3.79x_5$	$+8.31x_{37}$	$+0.58x_{10}$
x_{41}	1.5	$+0.00x_8$	$+0.50x_{38}$	$-1.00x_3$	$-0.50x_4$	$-1.00x_5$	$+1.50x_{37}$	$+0.00x_{10}$
x_{42}	1.0	$-0.00x_8$	$+1.00x_{38}$	$-1.00x_3$	$-1.00x_4$	$-1.00x_5$	$+1.00x_{37}$	$+0.00x_{10}$
x_{43}	2.0	$-0.00x_8$	$-0.00x_{38}$	$-2.00x_3$	$-1.00x_4$	$-2.00x_5$	$+3.00x_{37}$	$+0.00x_{10}$
x_{44}	1.83333333333	$-0.00x_8$	$-0.50x_{38}$	$-1.67x_3$	$-0.50x_4$	$-1.67x_5$	$+3.50x_{37}$	$+0.33x_{10}$
x_{45}	2.0	$-0.00x_8$	$-0.00x_{38}$	$-2.00x_3$	$-1.00x_4$	$-2.00x_5$	$+3.00x_{37}$	$+0.00x_{10}$
x_{46}	2.5	$-0.00x_8$	$+0.50x_{38}$	$-2.00x_3$	$-1.50x_4$	$-2.00x_5$	$+2.50x_{37}$	$+0.00x_{10}$
x_{47}	3.77083333333	$+0.12x_8$	$-1.69x_{38}$	$-2.79x_3$	$-2.19x_4$	$-3.79x_5$	$+7.81x_{37}$	$+0.58x_{10}$
x_{48}	0.5	$-0.00x_8$	$+0.50x_{38}$	$+0.00x_3$	$-0.50x_4$	$+0.00x_5$	$+0.50x_{37}$	$+0.00x_{10}$
x_{49}	3.27083333333	$+0.12x_8$	$-2.19x_{38}$	$-2.79x_3$	$-1.69x_4$	$-3.79x_5$	$+8.31x_{37}$	$+0.58x_{10}$
x_{50}	$-1.12687636999e-14$	$+0.00x_8$	$+1.00x_{38}$	$+0.00x_3$	$+0.00x_4$	$+0.00x_5$	$-0.00x_{37}$	$-0.00x_{10}$
x_{51}	3.77083333333	$+0.12x_8$	$-2.69x_{38}$	$-2.79x_3$	$-2.19x_4$	$-3.79x_5$	$+8.81x_{37}$	$+0.58x_{10}$
x_{52}	2.5	$-0.00x_8$	$+0.50x_{38}$	$-2.00x_3$	$-1.50x_4$	$-2.00x_5$	$+2.50x_{37}$	$+0.00x_{10}$
x_{53}	3.77083333333	$+0.12x_8$	$-2.69x_{38}$	$-2.79x_3$	$-2.19x_4$	$-3.79x_5$	$+8.81x_{37}$	$+0.58x_{10}$
x_{54}	3.77083333333	$+0.12x_8$	$-2.69x_{38}$	$-2.79x_3$	$-2.19x_4$	$-3.79x_5$	$+8.81x_{37}$	$+0.58x_{10}$
x_{55}	2.27083333333	$+0.12x_8$	$-2.19x_{38}$	$-1.79x_3$	$-1.69x_4$	$-2.79x_5$	$+7.31x_{37}$	$+0.58x_{10}$
x_{56}	2.0	$-0.00x_8$	$-0.00x_{38}$	$-2.00x_3$	$-1.00x_4$	$-2.00x_5$	$+3.00x_{37}$	$+0.00x_{10}$
x_{57}	1.27083333333	$+0.12x_8$	$-2.19x_{38}$	$-0.79x_3$	$-0.69x_4$	$-1.79x_5$	$+6.31x_{37}$	$+0.58x_{10}$
x_{58}	3.77083333333	$+0.12x_8$	$-2.69x_{38}$	$-2.79x_3$	$-2.19x_4$	$-3.79x_5$	$+8.81x_{37}$	$+0.58x_{10}$
x_{59}	1.77083333333	$+0.12x_8$	$-1.69x_{38}$	$-0.79x_3$	$-1.19x_4$	$-1.79x_5$	$+5.81x_{37}$	$+0.58x_{10}$
x_{60}	2.5	$-0.00x_8$	$+0.50x_{38}$	$-2.00x_3$	$-1.50x_4$	$-2.00x_5$	$+2.50x_{37}$	$+0.00x_{10}$
x_{61}	3.77083333333	$+0.12x_8$	$-1.69x_{38}$	$-2.79x_3$	$-2.19x_4$	$-3.79x_5$	$+7.81x_{37}$	$+0.58x_{10}$
x_{62}	-0.270833333333	$+0.88x_8$	$+0.19x_{38}$	$+0.79x_3$	$+0.69x_4$	$+0.79x_5$	$+0.69x_{37}$	$+0.42x_{10}$
x_{63}	-0.645833333332	$+0.62x_8$	$+0.06x_{38}$	$+0.04x_3$	$+0.56x_4$	$+0.04x_5$	$+0.56x_{37}$	$+0.92x_{10}$
x_{64}	-0.5	$+1.00x_8$	$+0.50x_{38}$	$+1.00x_3$	$+0.50x_4$	$+1.00x_5$	$+0.50x_{37}$	$+0.00x_{10}$
x_{65}	-0.833333333333	$+0.00x_8$	$+0.50x_{38}$	$+0.67x_3$	$+0.50x_4$	$+0.67x_5$	$+0.50x_{37}$	$+0.67x_{10}$
x_{66}	-0.583333333332	$+0.50x_8$	$+0.25x_{38}$	$+0.17x_3$	$+0.25x_4$	$+0.17x_5$	$+0.25x_{37}$	$+0.67x_{10}$

Forming the dual dictionary:
    The Final Dual Dictionary is:

Final primal dictionary obtained:

		x_{81}	x_{25}	x_3	x_4	x_5	x_{37}	x_{65}
x_2	0.69387755102	$+0.14x_{81}$	$-1.51x_{25}$	$+1.57x_3$	$+1.41x_4$	$-0.43x_5$	$+0.90x_{37}$	$+0.10x_{65}$
x_9	30.8367346939	$-1.86x_{81}$	$+20.06x_{25}$	$-19.43x_3$	$-10.45x_4$	$+11.57x_5$	$-4.39x_{37}$	$-1.61x_{65}$
x_7	1.57142857143	$-0.00x_{81}$	$+0.29x_{25}$	$+1.00x_3$	$+0.57x_4$	$-0.00x_5$	$-0.14x_{37}$	$+0.14x_{65}$
x_1	2.0		$-1.00x_{25}$		$+1.00x_4$			
x_{12}	38.9795918367	$-2.86x_{81}$	$+28.63x_{25}$	$-25.43x_3$	$-25.31x_4$	$+1.57x_5$	$-8.67x_{37}$	$-1.33x_{65}$
x_{35}	3.67346938776	$+0.29x_{81}$	$-2.88x_{25}$	$-2.86x_3$	$-3.90x_4$	$-4.86x_5$	$+6.22x_{37}$	$-0.22x_{65}$
x_{14}	7.40816326531	$+0.14x_{81}$	$+10.35x_{25}$	$-2.43x_3$	$-16.88x_4$	$-7.43x_5$	$-3.53x_{37}$	$-1.47x_{65}$
x_{15}	6.95918367347	$+0.29x_{81}$	$-0.73x_{25}$	$-5.86x_3$	$-6.61x_4$	$-7.86x_5$	$+5.65x_{37}$	$+0.35x_{65}$
x_{16}	5.26530612245	$+0.14x_{81}$	$-0.22x_{25}$	$-3.43x_3$	$-4.02x_4$	$-4.43x_5$	$+3.76x_{37}$	$+0.24x_{65}$
x_{17}	12.9591836735	$+0.29x_{81}$	$+5.27x_{25}$	$-8.86x_3$	$-10.61x_4$	$-11.86x_5$	$+4.65x_{37}$	$+0.35x_{65}$
x_{18}	1.0		$+1.00x_{25}$					
x_{19}	0.714285714286	$-0.00x_{81}$	$-0.14x_{25}$	$-1.00x_3$	$-0.29x_4$	$-1.00x_5$	$+0.57x_{37}$	$+0.43x_{65}$
x_{20}	4.24489795918	$+0.29x_{81}$	$-3.59x_{25}$	$-3.86x_3$	$-4.33x_4$	$-5.86x_5$	$+5.08x_{37}$	$+0.92x_{65}$
x_{21}	2.55102040816	$+0.14x_{81}$	$-2.08x_{25}$	$-1.43x_3$	$-2.73x_4$	$-2.43x_5$	$+2.18x_{37}$	$+0.82x_{65}$
x_{13}	7.71428571429	$+0.00x_{81}$	$+9.86x_{25}$	$-5.00x_3$	$-5.29x_4$	$-6.00x_5$	$-1.43x_{37}$	$-0.57x_{65}$
x_{22}	3.57142857143	$-0.00x_{81}$	$+3.29x_{25}$	$-3.00x_3$	$-2.43x_4$	$-3.00x_5$	$+0.86x_{37}$	$+0.14x_{65}$
x_{24}	7.85714285714	$+0.00x_{81}$	$+9.43x_{25}$	$-5.00x_3$	$-5.14x_4$	$-6.00x_5$	$-0.71x_{37}$	$-0.29x_{65}$
x_{23}	1.14285714286	$-0.00x_{81}$	$+0.57x_{25}$	$-1.00x_3$	$-0.86x_4$	$-1.00x_5$	$+0.71x_{37}$	$+0.29x_{65}$
x_{26}	9.97959183673	$+0.14x_{81}$	$+6.63x_{25}$	$-7.43x_3$	$-7.31x_4$	$-9.43x_5$	$+3.33x_{37}$	$-0.33x_{65}$
x_{27}	4.81632653061	$+0.29x_{81}$	$-3.31x_{25}$	$-3.86x_3$	$-4.76x_4$	$-5.86x_5$	$+6.94x_{37}$	$+0.06x_{65}$
x_{28}	8.42857142857	$+0.00x_{81}$	$+8.71x_{25}$	$-6.00x_3$	$-5.57x_4$	$-7.00x_5$	$+0.14x_{37}$	$-0.14x_{65}$
x_{29}	6.85714285714	$-0.00x_{81}$	$+6.43x_{25}$	$-5.00x_3$	$-5.14x_4$	$-6.00x_5$	$+1.29x_{37}$	$-0.29x_{65}$
x_{30}	8.55102040816	$+0.14x_{81}$	$+5.92x_{25}$	$-6.43x_3$	$-6.73x_4$	$-8.43x_5$	$+3.18x_{37}$	$-0.18x_{65}$
x_{31}	2.69387755102	$+0.14x_{81}$	$-0.51x_{25}$	$-2.43x_3$	$-2.59x_4$	$-3.43x_5$	$+2.90x_{37}$	$+0.10x_{65}$
x_{32}	12.1020408163	$+0.29x_{81}$	$+4.84x_{25}$	$-8.86x_3$	$-9.47x_4$	$-11.86x_5$	$+6.37x_{37}$	$-0.37x_{65}$
x_{33}	2.12244897959	$+0.14x_{81}$	$-0.80x_{25}$	$-1.43x_3$	$-2.16x_4$	$-2.43x_5$	$+3.04x_{37}$	$-0.04x_{65}$
x_{34}	2.69387755102	$+0.14x_{81}$	$-1.51x_{25}$	$-2.43x_3$	$-2.59x_4$	$-3.43x_5$	$+3.90x_{37}$	$+0.10x_{65}$
x_{11}	3.79591836735	$+0.43x_{81}$	$-4.67x_{25}$	$-3.29x_3$	$-5.06x_4$	$-6.29x_5$	$+7.27x_{37}$	$-0.27x_{65}$
x_6	0.877551020408	$-0.14x_{81}$	$+0.80x_{25}$	$-0.57x_3$	$+0.16x_4$	$+0.43x_5$	$-0.04x_{37}$	$+0.04x_{65}$
x_{36}	1.14285714286	$-0.00x_{81}$	$+0.57x_{25}$	$-1.00x_3$	$-0.86x_4$	$-1.00x_5$	$+1.71x_{37}$	$+0.29x_{65}$
x_{38}	0.142857142857	$-0.00x_{81}$	$+0.57x_{25}$	$-0.00x_3$	$+0.14x_4$	$-0.00x_5$	$+0.71x_{37}$	$+0.29x_{65}$
x_{39}	3.12244897959	$+0.14x_{81}$	$-1.80x_{25}$	$-2.43x_3$	$-2.16x_4$	$-3.43x_5$	$+5.04x_{37}$	$-0.04x_{65}$
x_{40}	3.69387755102	$+0.14x_{81}$	$-1.51x_{25}$	$-3.43x_3$	$-2.59x_4$	$-4.43x_5$	$+5.90x_{37}$	$+0.10x_{65}$
x_{41}	1.57142857143	$+0.00x_{81}$	$+0.29x_{25}$	$-1.00x_3$	$-0.43x_4$	$-1.00x_5$	$+1.86x_{37}$	$+0.14x_{65}$
x_{42}	1.14285714286	$-0.00x_{81}$	$+0.57x_{25}$	$-1.00x_3$	$-0.86x_4$	$-1.00x_5$	$+1.71x_{37}$	$+0.29x_{65}$
x_{43}	2.0	$-0.00x_{81}$	$-0.00x_{25}$	$-2.00x_3$	$-1.00x_4$	$-2.00x_5$	$+3.00x_{37}$	$+0.00x_{65}$
x_{44}	2.14285714286	$-0.00x_{81}$	$-0.43x_{25}$	$-2.00x_3$	$-0.86x_4$	$-2.00x_5$	$+2.71x_{37}$	$+0.29x_{65}$
x_{45}	2.0	$-0.00x_{81}$	$-0.00x_{25}$	$-2.00x_3$	$-1.00x_4$	$-2.00x_5$	$+3.00x_{37}$	$+0.00x_{65}$
x_{46}	2.57142857143	$-0.00x_{81}$	$+0.29x_{25}$	$-2.00x_3$	$-1.43x_4$	$-2.00x_5$	$+2.86x_{37}$	$+0.14x_{65}$
x_{47}	4.26530612245	$+0.14x_{81}$	$-1.22x_{25}$	$-3.43x_3$	$-3.02x_4$	$-4.43x_5$	$+5.76x_{37}$	$+0.24x_{65}$
x_{48}	0.571428571429	$-0.00x_{81}$	$+0.29x_{25}$	$-0.00x_3$	$-0.43x_4$	$-0.00x_5$	$+0.86x_{37}$	$+0.14x_{65}$
x_{49}	3.69387755102	$+0.14x_{81}$	$-1.51x_{25}$	$-3.43x_3$	$-2.59x_4$	$-4.43x_5$	$+5.90x_{37}$	$+0.10x_{65}$
x_{50}	0.142857142857	$-0.00x_{81}$	$+0.57x_{25}$	$-0.00x_3$	$+0.14x_4$	$-0.00x_5$	$+0.71x_{37}$	$+0.29x_{65}$
x_{51}	4.12244897959	$+0.14x_{81}$	$-1.80x_{25}$	$-3.43x_3$	$-3.16x_4$	$-4.43x_5$	$+6.04x_{37}$	$-0.04x_{65}$
x_{52}	2.57142857143	$-0.00x_{81}$	$+0.29x_{25}$	$-2.00x_3$	$-1.43x_4$	$-2.00x_5$	$+2.86x_{37}$	$+0.14x_{65}$
x_{53}	4.12244897959	$+0.14x_{81}$	$-1.80x_{25}$	$-3.43x_3$	$-3.16x_4$	$-4.43x_5$	$+6.04x_{37}$	$-0.04x_{65}$
x_{54}	4.12244897959	$+0.14x_{81}$	$-1.80x_{25}$	$-3.43x_3$	$-3.16x_4$	$-4.43x_5$	$+6.04x_{37}$	$-0.04x_{65}$
x_{55}	2.69387755102	$+0.14x_{81}$	$-1.51x_{25}$	$-2.43x_3$	$-2.59x_4$	$-3.43x_5$	$+4.90x_{37}$	$+0.10x_{65}$
x_{56}	2.0	$-0.00x_{81}$	$-0.00x_{25}$	$-2.00x_3$	$-1.00x_4$	$-2.00x_5$	$+3.00x_{37}$	$+0.00x_{65}$
x_{57}	1.69387755102	$+0.14x_{81}$	$-1.51x_{25}$	$-1.43x_3$	$-1.59x_4$	$-2.43x_5$	$+3.90x_{37}$	$+0.10x_{65}$
x_{58}	4.12244897959	$+0.14x_{81}$	$-1.80x_{25}$	$-3.43x_3$	$-3.16x_4$	$-4.43x_5$	$+6.04x_{37}$	$-0.04x_{65}$
x_{59}	2.26530612245	$+0.14x_{81}$	$-1.22x_{25}$	$-1.43x_3$	$-2.02x_4$	$-2.43x_5$	$+3.76x_{37}$	$+0.24x_{65}$
x_{60}	2.57142857143	$-0.00x_{81}$	$+0.29x_{25}$	$-2.00x_3$	$-1.43x_4$	$-2.00x_5$	$+2.86x_{37}$	$+0.14x_{65}$
x_{61}	4.26530612245	$+0.14x_{81}$	$-1.22x_{25}$	$-3.43x_3$	$-3.02x_4$	$-4.43x_5$	$+5.76x_{37}$	$+0.24x_{65}$
x_{63}	0.755102040817	$+0.71x_{81}$	$-0.41x_{25}$	$-1.14x_3$	$-0.67x_4$	$-1.14x_5$	$-1.08x_{37}$	$+1.08x_{65}$
x_{62}	0.714285714285	$+1.00x_{81}$	$-0.14x_{25}$	$+0.00x_3$	$-0.29x_4$	$+0.00x_5$	$-0.43x_{37}$	$+0.43x_{65}$
x_8	0.551020408163	$+1.14x_{81}$	$-0.08x_{25}$	$-0.43x_3$	$-0.73x_4$	$-0.43x_5$	$-0.82x_{37}$	$-0.18x_{65}$
x_{10}	1.14285714286	$-0.00x_{81}$	$-0.43x_{25}$	$-1.00x_3$	$-0.86x_4$	$-1.00x_5$	$-1.29x_{37}$	$+1.29x_{65}$
	0.489795918369	$+0.57x_{81}$	$-0.18x_{25}$	$-0.71x_3$	$-0.65x_4$	$-0.71x_5$	$-0.84x_{37}$	$+0.84x_{65}$

After cutting plane is added

		x_{81}	x_{25}	x_3	x_4	x_5	x_{37}	x_{65}
x_2	0.69387755102	$+0.14x_{81}$	$-1.51x_{25}$	$+1.57x_3$	$+1.41x_4$	$-0.43x_5$	$+0.90x_{37}$	$+0.10x_{65}$
x_9	30.8367346939	$-1.86x_{81}$	$+20.06x_{25}$	$-19.43x_3$	$-10.45x_4$	$+11.57x_5$	$-4.39x_{37}$	$-1.61x_{65}$
x_7	1.57142857143	$-0.00x_{81}$	$+0.29x_{25}$	$+1.00x_3$	$+0.57x_4$	$-0.00x_5$	$-0.14x_{37}$	$+0.14x_{65}$
x_1	2.0		$-1.00x_{25}$		$+1.00x_4$			
x_{12}	38.9795918367	$-2.86x_{81}$	$+28.63x_{25}$	$-25.43x_3$	$-25.31x_4$	$+1.57x_5$	$-8.67x_{37}$	$-1.33x_{65}$
x_{35}	3.67346938776	$+0.29x_{81}$	$-2.88x_{25}$	$-2.86x_3$	$-3.90x_4$	$-4.86x_5$	$+6.22x_{37}$	$-0.22x_{65}$
x_{14}	7.40816326531	$+0.14x_{81}$	$+10.35x_{25}$	$-2.43x_3$	$-16.88x_4$	$-7.43x_5$	$-3.53x_{37}$	$-1.47x_{65}$
x_{15}	6.95918367347	$+0.29x_{81}$	$-0.73x_{25}$	$-5.86x_3$	$-6.61x_4$	$-7.86x_5$	$+5.65x_{37}$	$+0.35x_{65}$
x_{16}	5.26530612245	$+0.14x_{81}$	$-0.22x_{25}$	$-3.43x_3$	$-4.02x_4$	$-4.43x_5$	$+3.76x_{37}$	$+0.24x_{65}$
x_{17}	12.9591836735	$+0.29x_{81}$	$+5.27x_{25}$	$-8.86x_3$	$-10.61x_4$	$-11.86x_5$	$+4.65x_{37}$	$+0.35x_{65}$
x_{18}	1.0		$+1.00x_{25}$					
x_{19}	0.714285714286	$-0.00x_{81}$	$-0.14x_{25}$	$-1.00x_3$	$-0.29x_4$	$-1.00x_5$	$+0.57x_{37}$	$+0.43x_{65}$
x_{20}	4.24489795918	$+0.29x_{81}$	$-3.59x_{25}$	$-3.86x_3$	$-4.33x_4$	$-5.86x_5$	$+5.08x_{37}$	$+0.92x_{65}$
x_{21}	2.55102040816	$+0.14x_{81}$	$-2.08x_{25}$	$-1.43x_3$	$-2.73x_4$	$-2.43x_5$	$+2.18x_{37}$	$+0.82x_{65}$
x_{13}	7.71428571429	$+0.00x_{81}$	$+9.86x_{25}$	$-5.00x_3$	$-5.29x_4$	$-6.00x_5$	$-1.43x_{37}$	$-0.57x_{65}$
x_{22}	3.57142857143	$-0.00x_{81}$	$+3.29x_{25}$	$-3.00x_3$	$-2.43x_4$	$-3.00x_5$	$+0.86x_{37}$	$+0.14x_{65}$
x_{24}	7.85714285714	$+0.00x_{81}$	$+9.43x_{25}$	$-5.00x_3$	$-5.14x_4$	$-6.00x_5$	$-0.71x_{37}$	$-0.29x_{65}$
x_{23}	1.14285714286	$-0.00x_{81}$	$+0.57x_{25}$	$-1.00x_3$	$-0.86x_4$	$-1.00x_5$	$+0.71x_{37}$	$+0.29x_{65}$
x_{26}	9.97959183673	$+0.14x_{81}$	$+6.63x_{25}$	$-7.43x_3$	$-7.31x_4$	$-9.43x_5$	$+3.33x_{37}$	$-0.33x_{65}$
x_{27}	4.81632653061	$+0.29x_{81}$	$-3.31x_{25}$	$-3.86x_3$	$-4.76x_4$	$-5.86x_5$	$+6.94x_{37}$	$+0.06x_{65}$
x_{28}	8.42857142857	$+0.00x_{81}$	$+8.71x_{25}$	$-6.00x_3$	$-5.57x_4$	$-7.00x_5$	$+0.14x_{37}$	$-0.14x_{65}$
x_{29}	6.85714285714	$-0.00x_{81}$	$+6.43x_{25}$	$-5.00x_3$	$-5.14x_4$	$-6.00x_5$	$+1.29x_{37}$	$-0.29x_{65}$
x_{30}	8.55102040816	$+0.14x_{81}$	$+5.92x_{25}$	$-6.43x_3$	$-6.73x_4$	$-8.43x_5$	$+3.18x_{37}$	$-0.18x_{65}$
x_{31}	2.69387755102	$+0.14x_{81}$	$-0.51x_{25}$	$-2.43x_3$	$-2.59x_4$	$-3.43x_5$	$+2.90x_{37}$	$+0.10x_{65}$
x_{32}	12.1020408163	$+0.29x_{81}$	$+4.84x_{25}$	$-8.86x_3$	$-9.47x_4$	$-11.86x_5$	$+6.37x_{37}$	$-0.37x_{65}$
x_{33}	2.12244897959	$+0.14x_{81}$	$-0.80x_{25}$	$-1.43x_3$	$-2.16x_4$	$-2.43x_5$	$+3.04x_{37}$	$-0.04x_{65}$
x_{34}	2.69387755102	$+0.14x_{81}$	$-1.51x_{25}$	$-2.43x_3$	$-2.59x_4$	$-3.43x_5$	$+3.90x_{37}$	$+0.10x_{65}$
x_{11}	3.79591836735	$+0.43x_{81}$	$-4.67x_{25}$	$-3.29x_3$	$-5.06x_4$	$-6.29x_5$	$+7.27x_{37}$	$-0.27x_{65}$
x_6	0.877551020408	$-0.14x_{81}$	$+0.80x_{25}$	$-0.57x_3$	$+0.16x_4$	$+0.43x_5$	$-0.04x_{37}$	$+0.04x_{65}$
x_{36}	1.14285714286	$-0.00x_{81}$	$+0.57x_{25}$	$-1.00x_3$	$-0.86x_4$	$-1.00x_5$	$+1.71x_{37}$	$+0.29x_{65}$
x_{38}	0.142857142857	$-0.00x_{81}$	$+0.57x_{25}$	$-0.00x_3$	$+0.14x_4$	$-0.00x_5$	$+0.71x_{37}$	$+0.29x_{65}$
x_{39}	3.12244897959	$+0.14x_{81}$	$-1.80x_{25}$	$-2.43x_3$	$-2.16x_4$	$-3.43x_5$	$+5.04x_{37}$	$-0.04x_{65}$
x_{40}	3.69387755102	$+0.14x_{81}$	$-1.51x_{25}$	$-3.43x_3$	$-2.59x_4$	$-4.43x_5$	$+5.90x_{37}$	$+0.10x_{65}$
x_{41}	1.57142857143	$+0.00x_{81}$	$+0.29x_{25}$	$-1.00x_3$	$-0.43x_4$	$-1.00x_5$	$+1.86x_{37}$	$+0.14x_{65}$
x_{42}	1.14285714286	$-0.00x_{81}$	$+0.57x_{25}$	$-1.00x_3$	$-0.86x_4$	$-1.00x_5$	$+1.71x_{37}$	$+0.29x_{65}$
x_{43}	2.0	$-0.00x_{81}$	$-0.00x_{25}$	$-2.00x_3$	$-1.00x_4$	$-2.00x_5$	$+3.00x_{37}$	$+0.00x_{65}$
x_{44}	2.14285714286	$-0.00x_{81}$	$-0.43x_{25}$	$-2.00x_3$	$-0.86x_4$	$-2.00x_5$	$+2.71x_{37}$	$+0.29x_{65}$
x_{45}	2.0	$-0.00x_{81}$	$-0.00x_{25}$	$-2.00x_3$	$-1.00x_4$	$-2.00x_5$	$+3.00x_{37}$	$+0.00x_{65}$
x_{46}	2.57142857143	$-0.00x_{81}$	$+0.29x_{25}$	$-2.00x_3$	$-1.43x_4$	$-2.00x_5$	$+2.86x_{37}$	$+0.14x_{65}$
x_{47}	4.26530612245	$+0.14x_{81}$	$-1.22x_{25}$	$-3.43x_3$	$-3.02x_4$	$-4.43x_5$	$+5.76x_{37}$	$+0.24x_{65}$
x_{48}	0.571428571429	$-0.00x_{81}$	$+0.29x_{25}$	$-0.00x_3$	$-0.43x_4$	$-0.00x_5$	$+0.86x_{37}$	$+0.14x_{65}$
x_{49}	3.69387755102	$+0.14x_{81}$	$-1.51x_{25}$	$-3.43x_3$	$-2.59x_4$	$-4.43x_5$	$+5.90x_{37}$	$+0.10x_{65}$
x_{50}	0.142857142857	$-0.00x_{81}$	$+0.57x_{25}$	$-0.00x_3$	$+0.14x_4$	$-0.00x_5$	$+0.71x_{37}$	$+0.29x_{65}$
x_{51}	4.12244897959	$+0.14x_{81}$	$-1.80x_{25}$	$-3.43x_3$	$-3.16x_4$	$-4.43x_5$	$+6.04x_{37}$	$-0.04x_{65}$
x_{52}	2.57142857143	$-0.00x_{81}$	$+0.29x_{25}$	$-2.00x_3$	$-1.43x_4$	$-2.00x_5$	$+2.86x_{37}$	$+0.14x_{65}$
x_{53}	4.12244897959	$+0.14x_{81}$	$-1.80x_{25}$	$-3.43x_3$	$-3.16x_4$	$-4.43x_5$	$+6.04x_{37}$	$-0.04x_{65}$
x_{54}	4.12244897959	$+0.14x_{81}$	$-1.80x_{25}$	$-3.43x_3$	$-3.16x_4$	$-4.43x_5$	$+6.04x_{37}$	$-0.04x_{65}$
x_{55}	2.69387755102	$+0.14x_{81}$	$-1.51x_{25}$	$-2.43x_3$	$-2.59x_4$	$-3.43x_5$	$+4.90x_{37}$	$+0.10x_{65}$
x_{56}	2.0	$-0.00x_{81}$	$-0.00x_{25}$	$-2.00x_3$	$-1.00x_4$	$-2.00x_5$	$+3.00x_{37}$	$+0.00x_{65}$
x_{57}	1.69387755102	$+0.14x_{81}$	$-1.51x_{25}$	$-1.43x_3$	$-1.59x_4$	$-2.43x_5$	$+3.90x_{37}$	$+0.10x_{65}$
x_{58}	4.12244897959	$+0.14x_{81}$	$-1.80x_{25}$	$-3.43x_3$	$-3.16x_4$	$-4.43x_5$	$+6.04x_{37}$	$-0.04x_{65}$
x_{59}	2.26530612245	$+0.14x_{81}$	$-1.22x_{25}$	$-1.43x_3$	$-2.02x_4$	$-2.43x_5$	$+3.76x_{37}$	$+0.24x_{65}$
x_{60}	2.57142857143	$-0.00x_{81}$	$+0.29x_{25}$	$-2.00x_3$	$-1.43x_4$	$-2.00x_5$	$+2.86x_{37}$	$+0.14x_{65}$
x_{61}	4.26530612245	$+0.14x_{81}$	$-1.22x_{25}$	$-3.43x_3$	$-3.02x_4$	$-4.43x_5$	$+5.76x_{37}$	$+0.24x_{65}$
x_{63}	0.755102040817	$+0.71x_{81}$	$-0.41x_{25}$	$-1.14x_3$	$-0.67x_4$	$-1.14x_5$	$-1.08x_{37}$	$+1.08x_{65}$
x_{62}	0.714285714285	$+1.00x_{81}$	$-0.14x_{25}$	$+0.00x_3$	$-0.29x_4$	$+0.00x_5$	$-0.43x_{37}$	$+0.43x_{65}$
x_8	0.551020408163	$+1.14x_{81}$	$-0.08x_{25}$	$-0.43x_3$	$-0.73x_4$	$-0.43x_5$	$-0.82x_{37}$	$-0.18x_{65}$
x_{10}	1.14285714286	$-0.00x_{81}$	$-0.43x_{25}$	$-1.00x_3$	$-0.86x_4$	$-1.00x_5$	$-1.29x_{37}$	$+1.29x_{65}$

Forming the dual dictionary:
    The Final Dual Dictionary is:

Final primal dictionary obtained:

x_{81}	5.0	$+7.00x_2$	$+21.50x_{126}$	$-11.00x_3$	$-9.50x_4$	$+3.00x_5$	$-16.50x_{37}$	$-12.00x_{116}$
x_9	40.0	$-13.00x_2$	$+1.00x_{126}$	$+1.00x_3$	$+8.00x_4$	$+6.00x_5$	$+7.00x_{37}$	$-1.00x_{116}$
x_7	2.0	$-0.00x_2$	$+0.50x_{126}$	$+1.00x_3$	$+0.50x_4$	$-0.00x_5$	$-0.50x_{37}$	$+0.00x_{116}$
x_1	1.0	$-0.00x_2$	$-2.00x_{126}$	$-0.00x_3$	$+1.00x_4$	$-0.00x_5$	$+1.00x_{37}$	$+1.00x_{116}$
x_{12}	52.0	$-20.00x_2$	$-3.50x_{126}$	$+6.00x_3$	$+2.50x_4$	$-7.00x_5$	$+10.50x_{37}$	$+3.00x_{116}$
x_{35}	2.0	$+2.00x_2$	$+0.50x_{126}$	$-6.00x_3$	$-6.50x_4$	$-4.00x_5$	$+4.50x_{37}$	$-1.00x_{116}$
x_{110}	4.0	$+6.00x_2$	$+19.00x_{126}$	$-9.00x_3$	$-8.00x_4$	$+3.00x_5$	$-14.00x_{37}$	$-10.00x_{116}$
x_{15}	8.0	$+2.00x_2$	$+4.50x_{126}$	$-9.00x_3$	$-9.50x_4$	$-7.00x_5$	$+1.50x_{37}$	$-2.00x_{116}$
x_{16}	6.0	$+1.00x_2$	$+2.50x_{126}$	$-5.00x_3$	$-5.50x_4$	$-4.00x_5$	$+1.50x_{37}$	$-1.00x_{116}$
x_{17}	20.0	$+2.00x_2$	$+16.50x_{126}$	$-12.00x_3$	$-13.50x_4$	$-11.00x_5$	$-5.50x_{37}$	$-8.00x_{116}$
x_{18}	2.0	$+0.00x_2$	$+2.00x_{126}$	$+0.00x_3$	$-0.00x_4$	$+0.00x_5$	$-1.00x_{37}$	$-1.00x_{116}$
x_{19}	1.0	$-0.00x_2$	$-0.50x_{126}$	$-1.00x_3$	$-0.50x_4$	$-1.00x_5$	$+0.50x_{37}$	$+1.00x_{116}$
x_{20}	3.0	$+2.00x_2$	$-1.50x_{126}$	$-7.00x_3$	$-7.50x_4$	$-5.00x_5$	$+3.50x_{37}$	$+2.00x_{116}$
x_{21}	2.0	$+1.00x_2$	$-1.50x_{126}$	$-3.00x_3$	$-4.50x_4$	$-2.00x_5$	$+1.50x_{37}$	$+2.00x_{116}$
x_{109}	1.0	$-0.00x_2$	$+1.00x_{126}$	$-0.00x_3$	$-0.00x_4$	$-0.00x_5$	$-1.00x_{37}$	$+1.00x_{116}$
x_{22}	7.0	$-0.00x_2$	$+6.50x_{126}$	$-3.00x_3$	$-2.50x_4$	$-3.00x_5$	$-2.50x_{37}$	$-3.00x_{116}$
x_{24}	17.0	$+0.00x_2$	$+19.00x_{126}$	$-5.00x_3$	$-5.00x_4$	$-6.00x_5$	$-10.00x_{37}$	$-10.00x_{116}$
x_{23}	2.0	$-0.00x_2$	$+1.00x_{126}$	$-1.00x_3$	$-1.00x_4$	$-1.00x_5$	$+0.00x_{37}$	$+0.00x_{116}$
x_{26}	17.0	$+1.00x_2$	$+16.50x_{126}$	$-9.00x_3$	$-8.50x_4$	$-9.00x_5$	$-5.50x_{37}$	$-9.00x_{116}$
x_{27}	3.0	$+2.00x_2$	$-0.50x_{126}$	$-7.00x_3$	$-7.50x_4$	$-5.00x_5$	$+5.50x_{37}$	$+0.00x_{116}$
x_{28}	17.0	$+0.00x_2$	$+17.50x_{126}$	$-6.00x_3$	$-5.50x_4$	$-7.00x_5$	$-8.50x_{37}$	$-9.00x_{116}$
x_{29}	13.0	$+0.00x_2$	$+13.00x_{126}$	$-5.00x_3$	$-5.00x_4$	$-6.00x_5$	$-5.00x_{37}$	$-7.00x_{116}$
x_{30}	15.0	$+1.00x_2$	$+15.00x_{126}$	$-8.00x_3$	$-8.00x_4$	$-8.00x_5$	$-5.00x_{37}$	$-8.00x_{116}$
x_{31}	3.0	$+1.00x_2$	$+2.00x_{126}$	$-4.00x_3$	$-4.00x_4$	$-3.00x_5$	$+1.00x_{37}$	$-1.00x_{116}$
x_{32}	18.0	$+2.00x_2$	$+16.00x_{126}$	$-12.00x_3$	$-12.00x_4$	$-11.00x_5$	$-3.00x_{37}$	$-9.00x_{116}$
x_{33}	2.0	$+1.00x_2$	$+1.50x_{126}$	$-3.00x_3$	$-3.50x_4$	$-2.00x_5$	$+1.50x_{37}$	$-1.00x_{116}$
x_{34}	2.0	$+1.00x_2$	$-0.00x_{126}$	$-4.00x_3$	$-4.00x_4$	$-3.00x_5$	$+3.00x_{37}$	$+0.00x_{116}$
x_{11}	1.0	$+3.00x_2$	$-0.00x_{126}$	$-8.00x_3$	$-9.00x_4$	$-5.00x_5$	$+5.00x_{37}$	$-1.00x_{116}$
x_{13}	17.0	$+0.00x_2$	$+20.00x_{126}$	$-5.00x_3$	$-5.00x_4$	$-6.00x_5$	$-11.00x_{37}$	$-11.00x_{116}$
x_{36}	2.0	$-0.00x_2$	$+1.00x_{126}$	$-1.00x_3$	$-1.00x_4$	$-1.00x_5$	$+1.00x_{37}$	$+0.00x_{116}$
x_{38}	1.0	$-0.00x_2$	$+1.00x_{126}$	$-0.00x_3$	$-0.00x_4$	$-0.00x_5$	$+0.00x_{37}$	$+0.00x_{116}$
x_{39}	2.0	$+1.00x_2$	$-0.50x_{126}$	$-4.00x_3$	$-3.50x_4$	$-3.00x_5$	$+4.50x_{37}$	$+0.00x_{116}$
x_{40}	3.0	$+1.00x_2$	$-0.00x_{126}$	$-5.00x_3$	$-4.00x_4$	$-4.00x_5$	$+5.00x_{37}$	$+0.00x_{116}$
x_{41}	2.0	$+0.00x_2$	$+0.50x_{126}$	$-1.00x_3$	$-0.50x_4$	$-1.00x_5$	$+1.50x_{37}$	$+0.00x_{116}$
x_{42}	2.0	$-0.00x_2$	$+1.00x_{126}$	$-1.00x_3$	$-1.00x_4$	$-1.00x_5$	$+1.00x_{37}$	$+0.00x_{116}$
x_{43}	2.0	$-0.00x_2$	$-0.00x_{126}$	$-2.00x_3$	$-1.00x_4$	$-2.00x_5$	$+3.00x_{37}$	$+0.00x_{116}$
x_{44}	2.0	$-0.00x_2$	$-1.00x_{126}$	$-2.00x_3$	$-1.00x_4$	$-2.00x_5$	$+3.00x_{37}$	$+1.00x_{116}$
x_{45}	2.0	$-0.00x_2$	$-0.00x_{126}$	$-2.00x_3$	$-1.00x_4$	$-2.00x_5$	$+3.00x_{37}$	$+0.00x_{116}$
x_{46}	3.0	$-0.00x_2$	$+0.50x_{126}$	$-2.00x_3$	$-1.50x_4$	$-2.00x_5$	$+2.50x_{37}$	$+0.00x_{116}$
x_{47}	4.0	$+1.00x_2$	$+0.50x_{126}$	$-5.00x_3$	$-4.50x_4$	$-4.00x_5$	$+4.50x_{37}$	$+0.00x_{116}$
x_{48}	1.0	$-0.00x_2$	$+0.50x_{126}$	$-0.00x_3$	$-0.50x_4$	$-0.00x_5$	$+0.50x_{37}$	$+0.00x_{116}$
x_{49}	3.0	$+1.00x_2$	$-0.00x_{126}$	$-5.00x_3$	$-4.00x_4$	$-4.00x_5$	$+5.00x_{37}$	$+0.00x_{116}$
x_{50}	1.0	$-0.00x_2$	$+1.00x_{126}$	$-0.00x_3$	$-0.00x_4$	$-0.00x_5$	$+0.00x_{37}$	$+0.00x_{116}$
x_{51}	3.0	$+1.00x_2$	$-0.50x_{126}$	$-5.00x_3$	$-4.50x_4$	$-4.00x_5$	$+5.50x_{37}$	$+0.00x_{116}$
x_{52}	3.0	$-0.00x_2$	$+0.50x_{126}$	$-2.00x_3$	$-1.50x_4$	$-2.00x_5$	$+2.50x_{37}$	$+0.00x_{116}$
x_{53}	3.0	$+1.00x_2$	$-0.50x_{126}$	$-5.00x_3$	$-4.50x_4$	$-4.00x_5$	$+5.50x_{37}$	$+0.00x_{116}$
x_{54}	3.0	$+1.00x_2$	$-0.50x_{126}$	$-5.00x_3$	$-4.50x_4$	$-4.00x_5$	$+5.50x_{37}$	$+0.00x_{116}$
x_{55}	2.0	$+1.00x_2$	$-0.00x_{126}$	$-4.00x_3$	$-4.00x_4$	$-3.00x_5$	$+4.00x_{37}$	$+0.00x_{116}$
x_{56}	2.0	$-0.00x_2$	$-0.00x_{126}$	$-2.00x_3$	$-1.00x_4$	$-2.00x_5$	$+3.00x_{37}$	$+0.00x_{116}$
x_{57}	1.0	$+1.00x_2$	$-0.00x_{126}$	$-3.00x_3$	$-3.00x_4$	$-2.00x_5$	$+3.00x_{37}$	$+0.00x_{116}$
x_{58}	3.0	$+1.00x_2$	$-0.50x_{126}$	$-5.00x_3$	$-4.50x_4$	$-4.00x_5$	$+5.50x_{37}$	$+0.00x_{116}$
x_{59}	2.0	$+1.00x_2$	$+0.50x_{126}$	$-3.00x_3$	$-3.50x_4$	$-2.00x_5$	$+2.50x_{37}$	$+0.00x_{116}$
x_{60}	3.0	$-0.00x_2$	$+0.50x_{126}$	$-2.00x_3$	$-1.50x_4$	$-2.00x_5$	$+2.50x_{37}$	$+0.00x_{116}$
x_{61}	4.0	$+1.00x_2$	$+0.50x_{126}$	$-5.00x_3$	$-4.50x_4$	$-4.00x_5$	$+4.50x_{37}$	$+0.00x_{116}$
x_{63}	5.0	$+5.00x_2$	$+14.00x_{126}$	$-9.00x_3$	$-8.00x_4$	$+1.00x_5$	$-13.00x_{37}$	$-6.00x_{116}$
x_{62}	6.0	$+7.00x_2$	$+21.00x_{126}$	$-11.00x_3$	$-10.00x_4$	$+3.00x_5$	$-17.00x_{37}$	$-11.00x_{116}$
x_{14}	17.0	$+1.00x_2$	$+24.50x_{126}$	$-4.00x_3$	$-17.50x_4$	$-7.00x_5$	$-15.50x_{37}$	$-15.00x_{116}$
x_{10}	2.0	$-0.00x_2$	$-1.50x_{126}$	$-1.00x_3$	$-1.50x_4$	$-1.00x_5$	$-1.50x_{37}$	$+3.00x_{116}$
$x_{??}$	4.0	$+4.00x_2$	$+11.50x_{126}$	$-7.00x_3$	$-6.50x_4$	$+1.00x_5$	$-10.50x_{37}$	$-5.00x_{116}$

Final answer: -12.000000 Done.Added 183 cuts