Initial Dictionary

x_7	28.0	$-6.00x_1$	$+7.00x_2$	$+10.00x_3$	$-1.00x_4$	$-1.00x_5$	$-8.00x_6$
x_8	34.0	$-9.00x_1$	$+6.00x_2$	$+1.00x_3$	$-2.00x_4$	$-4.00x_5$	$-3.00x_6$
x_9	-27.0	$+10.00x_1$	$-4.00x_2$	$+8.00x_3$	$-2.00x_4$	$+2.00x_5$	$+7.00x_6$
x_{10}	-2.0	$+3.00x_1$	$-6.00x_2$	$+5.00x_3$	$-3.00x_4$	$-4.00x_5$	$+10.00x_6$
x_{11}	46.0	$+3.00x_1$	$-10.00x_2$	$-3.00x_3$	$-10.00x_4$	$-7.00x_5$	$+1.00x_6$
x_{12}	-7.0	$+1.00x_1$	$+6.00x_2$		$+9.00x_4$	$-6.00x_5$	$-4.00x_6$
z	0.0	$+3.00x_1$	$-4.00x_2$	$-4.00x_3$	$+5.00x_4$		$-2.00x_6$

0.1 Initialization Phase: Dual Problem Solving

New Objective in primal was changed to :

$$\max \sum_{j=1}^{6} -x_j$$

Primal variable x_j corresponds to dual variable y_j for $j = 1, \ldots, 12$ Dual Dictionary (with objective changed is):

y_1	1.0	$+6.00y_7$	$+9.00y_8$	$-10.00y_9$	$-3.00y_{10}$	$-3.00y_{11}$	$-1.00y_{12}$
y_2	1.0	$-7.00y_7$	$-6.00y_8$	$+4.00y_9$	$+6.00y_{10}$	$+10.00y_{11}$	$-6.00y_{12}$
y_3	1.0	$-10.00y_7$	$-1.00y_8$	$-8.00y_9$	$-5.00y_{10}$	$+3.00y_{11}$	
y_4	1.0	$+1.00y_7$	$+2.00y_8$	$+2.00y_9$	$+3.00y_{10}$	$+10.00y_{11}$	$-9.00y_{12}$
y_5	1.0	$+1.00y_7$	$+4.00y_8$	$-2.00y_9$	$+4.00y_{10}$	$+7.00y_{11}$	$+6.00y_{12}$
y_6	1.0	$+8.00y_7$	$+3.00y_8$	$-7.00y_9$	$-10.00y_{10}$	$-1.00y_{11}$	$+4.00y_{12}$
z	-0	$-28.00y_7$	$-34.00y_8$	$+27.00y_9$	$+2.00y_{10}$	$-46.00y_{11}$	$+7.00y_{12}$

Initialization succeeded in finding final dual dictionary with 3 pivots

y_9	0.0869565217391	$+0.58y_7$	$+0.86y_8$	$-0.10y_1$	$-0.33y_{10}$	$-0.40y_{11}$	$+0.01y_4$
y_2	0.565217391304	$-6.13y_7$	$-5.04y_8$	$-0.26y_1$	$+3.13y_{10}$	$+2.26y_{11}$	$+0.70y_4$
y_3	0.304347826087	$-14.61y_7$	$-7.87y_8$	$+0.78y_1$	$-2.39y_{10}$	$+6.22y_{11}$	$-0.09y_4$
y_{12}	0.130434782609	$+0.24y_7$	$+0.41y_8$	$-0.02y_1$	$+0.26y_{10}$	$+1.02y_{11}$	$-0.11y_4$
y_5	1.60869565217	$+1.28y_7$	$+4.76y_8$	$+0.07y_1$	$+6.22y_{10}$	$+13.93y_{11}$	$-0.67y_4$
y_6	0.913043478261	$+4.92y_7$	$-1.36y_8$	$+0.60y_1$	$-6.67y_{10}$	$+5.90y_{11}$	$-0.51y_4$
z	3.26086956522	$-10.77y_7$	$-7.92y_8$	$-2.79y_1$	$-4.98y_{10}$	$-49.71y_{11}$	$-0.47y_4$

Primal Dictionary is:

x_7	10.7717391304	$-0.58x_9$	$+6.13x_2$	$+14.61x_3$	$-0.24x_{12}$	$-1.28x_5$	$-4.92x_6$
x_8	7.92391304348	$-0.86x_9$	$+5.04x_2$	$+7.87x_3$	$-0.41x_{12}$	$-4.76x_5$	$+1.36x_6$
x_1	2.79347826087	$+0.10x_9$	$+0.26x_2$	$-0.78x_3$	$+0.02x_{12}$	$-0.07x_5$	$-0.60x_6$
x_{10}	4.97826086957	$+0.33x_9$	$-3.13x_2$	$+2.39x_3$	$-0.26x_{12}$	$-6.22x_5$	$+6.67x_6$
x_{11}	49.7065217391	$+0.40x_9$	$-2.26x_2$	$-6.22x_3$	$-1.02x_{12}$	$-13.93x_5$	$-5.90x_6$
x_4	0.467391304348	$-0.01x_9$	$-0.70x_2$	$+0.09x_3$	$+0.11x_{12}$	$+0.67x_5$	$+0.51x_6$
z	-3.26086956522	$-0.09x_9$	$-0.57x_2$	$-0.30x_3$	$-0.13x_{12}$	$-1.61x_5$	$-0.91x_6$

Primal Dictionary with original objective is:

x_7	10.7717391304	$-0.58x_9$	$+6.13x_2$	$+14.61x_3$	$-0.24x_{12}$	$-1.28x_5$	$-4.92x_6$
x_8	7.92391304348	$-0.86x_9$	$+5.04x_2$	$+7.87x_3$	$-0.41x_{12}$	$-4.76x_5$	$+1.36x_6$
x_1	2.79347826087	$+0.10x_9$	$+0.26x_2$	$-0.78x_3$	$+0.02x_{12}$	$-0.07x_5$	$-0.60x_6$
x_{10}	4.97826086957	$+0.33x_9$	$-3.13x_2$	$+2.39x_3$	$-0.26x_{12}$	$-6.22x_5$	$+6.67x_6$
x_{11}	49.7065217391	$+0.40x_9$	$-2.26x_2$	$-6.22x_3$	$-1.02x_{12}$	$-13.93x_5$	$-5.90x_6$
x_4	0.467391304348	$-0.01x_9$	$-0.70x_2$	$+0.09x_3$	$+0.11x_{12}$	$+0.67x_5$	$+0.51x_6$
z	10.7173913043	$+0.24x_9$	$-6.70x_2$	$-5.91x_3$	$+0.61x_{12}$	$+3.17x_5$	$-1.24x_6$

x_5 enters and x_{10} leaves

x_7	9.74475524476	$-0.64x_9$	$+6.78x_2$	$+14.12x_3$	$-0.19x_{12}$	$+0.21x_{10}$	$-6.30x_6$
x_8	4.11188811189	$-1.11x_9$	$+7.44x_2$	$+6.04x_3$	$-0.21x_{12}$	$+0.77x_{10}$	$-3.75x_6$
x_1	2.74125874126	$+0.09x_9$	$+0.29x_2$	$-0.81x_3$	$+0.02x_{12}$	$+0.01x_{10}$	$-0.67x_6$
x_5	0.800699300699	$+0.05x_9$	$-0.50x_2$	$+0.38x_3$	$-0.04x_{12}$	$-0.16x_{10}$	$+1.07x_6$
x_{11}	38.548951049	$-0.33x_9$	$+4.76x_2$	$-11.58x_3$	$-0.44x_{12}$	$+2.24x_{10}$	$-20.86x_6$
x_4	1.00699300699	$+0.02x_9$	$-1.03x_2$	$+0.35x_3$	$+0.08x_{12}$	$-0.11x_{10}$	$+1.23x_6$
z	13.2587412587	$+0.41x_9$	$-8.29x_2$	$-4.69x_3$	$+0.48x_{12}$	$-0.51x_{10}$	$+2.17x_6$

x_6 enters and x_8 leaves

x_7	2.83923578751	$+1.22x_9$	$-5.72x_2$	$+3.97x_3$	$+0.17x_{12}$	$-1.08x_{10}$	$+1.68x_8$
x_6	1.09599254427	$-0.30x_9$	$+1.98x_2$	$+1.61x_3$	$-0.06x_{12}$	$+0.20x_{10}$	$-0.27x_8$
x_1	2.00931966449	$+0.29x_9$	$-1.03x_2$	$-1.88x_3$	$+0.06x_{12}$	$-0.13x_{10}$	$+0.18x_8$
x_5	1.97716682199	$-0.26x_9$	$+1.63x_2$	$+2.11x_3$	$-0.10x_{12}$	$+0.06x_{10}$	$-0.29x_8$
x_{11}	15.6863932898	$+5.83x_9$	$-36.62x_2$	$-45.15x_3$	$+0.75x_{12}$	$-2.02x_{10}$	$+5.56x_8$
x_4	2.35973904939	$-0.34x_9$	$+1.41x_2$	$+2.33x_3$	$+0.01x_{12}$	$+0.14x_{10}$	$-0.33x_8$
z	15.6346691519	$-0.23x_9$	$-3.99x_2$	$-1.20x_3$	$+0.35x_{12}$	$-0.07x_{10}$	$-0.58x_8$

x_{12} enters and x_5 leaves

x_7	6.15837104072	$+0.77x_9$	$-2.99x_2$	$+7.52x_3$	$-1.68x_5$	$-0.98x_{10}$	$+1.20x_8$
x_6	0.00452488687783	$-0.15x_9$	$+1.09x_2$	$+0.44x_3$	$+0.55x_5$	$+0.17x_{10}$	$-0.11x_8$
x_1	3.20814479638	$+0.13x_9$	$-0.05x_2$	$-0.60x_3$	$-0.61x_5$	$-0.09x_{10}$	$+0.00x_8$
x_{12}	19.1990950226	$-2.57x_9$	$+15.78x_2$	$+20.51x_3$	$-9.71x_5$	$+0.57x_{10}$	$-2.78x_8$
x_{11}	30.0633484163	$+3.91x_9$	$-24.80x_2$	$-29.79x_3$	$-7.27x_5$	$-1.59x_{10}$	$+3.48x_8$
x_4	2.55656108597	$-0.37x_9$	$+1.57x_2$	$+2.54x_3$	$-0.10x_5$	$+0.15x_{10}$	$-0.36x_8$
z	22.3981900452	$-1.14x_9$	$+1.57x_2$	$+6.02x_3$	$-3.42x_5$	$+0.13x_{10}$	$-1.56x_8$

x_2 enters and x_{11} leaves

x_7	2.53211678832	$+0.30x_9$	$+0.12x_{11}$	$+11.11x_3$	$-0.80x_5$	$-0.79x_{10}$ $+0.78x_8$
x_6	1.32116788321	$+0.02x_9$	$-0.04x_{11}$	$-0.86x_3$	$+0.23x_5$	$+0.10x_{10}$ $+0.04x_8$
x_1	3.15328467153	$+0.12x_9$	$+0.00x_{11}$	$-0.55x_3$	$-0.59x_5$	$-0.09x_{10}$ $-0.00x_8$
x_{12}	38.3343065693	$-0.08x_9$	$-0.64x_{11}$	$+1.55x_3$	$-14.34x_5$	$-0.45x_{10}$ $-0.56x_8$
x_2	1.21240875912	$+0.16x_9$	$-0.04x_{11}$	$-1.20x_3$	$-0.29x_5$	$-0.06x_{10}$ $+0.14x_8$
x_4	4.46569343066	$-0.12x_9$	$-0.06x_{11}$	$+0.65x_3$	$-0.56x_5$	$+0.05x_{10}$ $-0.14x_8$
z	24.296350365	$-0.89x_9$	$-0.06x_{11}$	$+4.14x_3$	$-3.88x_5$	$+0.03x_{10}$ $-1.34x_8$

x_3 enters and x_2 leaves

x_7	13.7472660996	$+1.76x_9$	$-0.25x_{11}$	$-9.25x_2$	$-3.51x_5$	$-1.38x_{10}$ $+2.08x_8$
x_6	0.452004860267	$-0.09x_9$	$-0.01x_{11}$	$+0.72x_2$	$+0.44x_5$	$+0.15x_{10}$ $-0.06x_8$
x_1	2.60085054678	$+0.05x_9$	$+0.02x_{11}$	$+0.46x_2$	$-0.46x_5$	$-0.06x_{10}$ $-0.07x_8$
x_{12}	39.897326853	$+0.12x_9$	$-0.69x_{11}$	$-1.29x_2$	$-14.72x_5$	$-0.53x_{10}$ $-0.38x_8$
x_3	1.00911300122	$+0.13x_9$	$-0.03x_{11}$	$-0.83x_2$	$-0.24x_5$	$-0.05x_{10}$ $+0.12x_8$
x_4	5.1227217497	$-0.03x_9$	$-0.09x_{11}$	$-0.54x_2$	$-0.72x_5$	$+0.01x_{10}$ $-0.06x_8$
z	28.4756986634	$-0.35x_9$	$-0.20x_{11}$	$-3.45x_2$	$-4.89x_5$	$-0.19x_{10}$ $-0.85x_8$

Final Dictionary Final dictionary after first LP relaxation solve:

x_7	13.7472660996	$+1.76x_9$	$-0.25x_{11}$	$-9.25x_2$	$-3.51x_5$	$-1.38x_{10}$ $+2.08x_8$
x_6	0.452004860267	$-0.09x_9$	$-0.01x_{11}$	$+0.72x_2$	$+0.44x_5$	$+0.15x_{10}$ $-0.06x_8$
x_1	2.60085054678	$+0.05x_9$	$+0.02x_{11}$	$+0.46x_2$	$-0.46x_5$	$-0.06x_{10}$ $-0.07x_8$
x_{12}	39.897326853	$+0.12x_9$	$-0.69x_{11}$	$-1.29x_2$	$-14.72x_5$	$-0.53x_{10}$ $-0.38x_8$
x_3	1.00911300122	$+0.13x_9$	$-0.03x_{11}$	$-0.83x_2$	$-0.24x_5$	$-0.05x_{10}$ $+0.12x_8$
x_4	5.1227217497	$-0.03x_9$	$-0.09x_{11}$	$-0.54x_2$	$-0.72x_5$	$+0.01x_{10}$ $-0.06x_8$
z	28.4756986634	$-0.35x_9$	$-0.20x_{11}$	$-3.45x_2$	$-4.89x_5$	$-0.19x_{10}$ $-0.85x_8$

After cutting plane is added

x_7	13.7472660996	$+1.76x_9$	$-0.25x_{11}$	$-9.25x_2$	$-3.51x_5$	$-1.38x_{10}$ $+2.08x_8$
x_6	0.452004860267	$-0.09x_9$	$-0.01x_{11}$	$+0.72x_2$	$+0.44x_5$	$+0.15x_{10}$ $-0.06x_8$
x_1	2.60085054678	$+0.05x_9$	$+0.02x_{11}$	$+0.46x_2$	$-0.46x_5$	$-0.06x_{10}$ $-0.07x_8$
x_{12}	39.897326853	$+0.12x_9$	$-0.69x_{11}$	$-1.29x_2$	$-14.72x_5$	$-0.53x_{10}$ $-0.38x_8$
x_3	1.00911300122	$+0.13x_9$	$-0.03x_{11}$	$-0.83x_2$	$-0.24x_5$	$-0.05x_{10}$ $+0.12x_8$
x_4	5.1227217497	$-0.03x_9$	$-0.09x_{11}$	$-0.54x_2$	$-0.72x_5$	$+0.01x_{10}$ $-0.06x_8$
x_{13}	-0.747266099635	$+0.24x_9$	$+0.25x_{11}$	$+0.25x_2$	$+0.51x_5$	$+0.38x_{10}$ $+0.92x_8$
x_{14}	-0.452004860267	$+0.09x_9$	$+0.01x_{11}$	$+0.28x_2$	$+0.56x_5$	$+0.85x_{10}$ $+0.06x_8$
x_{15}	-0.60085054678	$+0.95x_9$	$+0.98x_{11}$	$+0.54x_2$	$+0.46x_5$	$+0.06x_{10}$ $+0.07x_8$
x_{16}	-0.897326852977	$+0.88x_9$	$+0.69x_{11}$	$+0.29x_2$	$+0.72x_5$	$+0.53x_{10}$ $+0.38x_8$
x_{17}	-0.00911300121507	$+0.87x_9$	$+0.03x_{11}$	$+0.83x_2$	$+0.24x_5$	$+0.05x_{10}$ $+0.88x_8$
x_{18}	-0.122721749696	$+0.03x_9$	$+0.09x_{11}$	$+0.54x_2$	$+0.72x_5$	$+0.99x_{10}$ $+0.06x_8$
z	28.4756986634	$-0.35x_9$	$-0.20x_{11}$	$-3.45x_2$	$-4.89x_5$	$-0.19x_{10}$ $-0.85x_8$

Forming the dual dictionary:

The Final Dual Dictionary is:
Final primal dictionary obtained:

x_7	11.3941176471	$+1.99x_9 +0.70x_{15} -8.70x_2 -1.93x_5 -3.71x_{13} +5.45x_8$
x_6	0.682352941176	$-0.07x_9 -0.12x_{15} +0.68x_2 +0.29x_5 +0.40x_{13} -0.42x_8$
x_1	2.51764705882	$+0.03x_9 +0.06x_{15} +0.46x_2 -0.41x_5 -0.16x_{13} +0.08x_8$
x_{12}	38.6882352941	$+0.78x_9 -0.36x_{15} -0.76x_2 -13.87x_5 -1.33x_{13} +0.87x_8$
x_3	0.905882352941	$+0.16x_9 +0.00x_{15} -0.80x_2 -0.17x_5 -0.14x_{13} +0.25x_8$
x_4	5.1	$+0.05x_9 -0.10x_{15} -0.50x_2 -0.70x_5 +0.05x_{13} -0.10x_8$
x_{10}	1.60588235294	$+0.01x_9 -0.70x_{15} -0.30x_2 -1.07x_5 +2.71x_{13} -2.45x_8$
x_{14}	0.923529411765	$+0.09x_9 -0.58x_{15} +0.02x_2 -0.36x_5 +2.31x_{13} -2.03x_8$
x_{11}	0.517647058824	$-0.97x_9 +1.06x_{15} -0.54x_2 -0.41x_5 -0.16x_{13} +0.08x_8$
x_{16}	0.311764705882	$+0.22x_9 +0.36x_{15} -0.24x_2 -0.13x_5 +1.33x_{13} -0.87x_8$
x_{17}	0.0941176470588	$+0.84x_9 -0.00x_{15} +0.80x_2 +0.17x_5 +0.14x_{13} +0.75x_8$
x_{18}	1.50588235294	$-0.04x_9 -0.60x_{15} +0.20x_2 -0.37x_5 +2.66x_{13} -2.35x_8$
z	28.0647058824	$-0.16x_9 -0.08x_{15} -3.28x_2 -4.60x_5 -0.48x_{13} -0.40x_8$

After cutting plane is added

x_7	11.3941176471	$+1.99x_9 +0.70x_{15} -8.70x_2 -1.93x_5 -3.71x_{13} +5.45x_8$
x_6	0.682352941176	$-0.07x_9 -0.12x_{15} +0.68x_2 +0.29x_5 +0.40x_{13} -0.42x_8$
x_1	2.51764705882	$+0.03x_9 +0.06x_{15} +0.46x_2 -0.41x_5 -0.16x_{13} +0.08x_8$
x_{12}	38.6882352941	$+0.78x_9 -0.36x_{15} -0.76x_2 -13.87x_5 -1.33x_{13} +0.87x_8$
x_3	0.905882352941	$+0.16x_9 +0.00x_{15} -0.80x_2 -0.17x_5 -0.14x_{13} +0.25x_8$
x_4	5.1	$+0.05x_9 -0.10x_{15} -0.50x_2 -0.70x_5 +0.05x_{13} -0.10x_8$
x_{10}	1.60588235294	$+0.01x_9 -0.70x_{15} -0.30x_2 -1.07x_5 +2.71x_{13} -2.45x_8$
x_{14}	0.923529411765	$+0.09x_9 -0.58x_{15} +0.02x_2 -0.36x_5 +2.31x_{13} -2.03x_8$
x_{11}	0.517647058824	$-0.97x_9 +1.06x_{15} -0.54x_2 -0.41x_5 -0.16x_{13} +0.08x_8$
x_{16}	0.311764705882	$+0.22x_9 +0.36x_{15} -0.24x_2 -0.13x_5 +1.33x_{13} -0.87x_8$
x_{17}	0.0941176470588	$+0.84x_9 -0.00x_{15} +0.80x_2 +0.17x_5 +0.14x_{13} +0.75x_8$
x_{18}	1.50588235294	$-0.04x_9 -0.60x_{15} +0.20x_2 -0.37x_5 +2.66x_{13} -2.35x_8$
x_{19}	-0.394117647059	$+0.01x_9 +0.30x_{15} +0.70x_2 +0.93x_5 +0.71x_{13} +0.55x_8$
x_{20}	-0.682352941176	$+0.07x_9 +0.12x_{15} +0.32x_2 +0.71x_5 +0.60x_{13} +0.42x_8$
x_{21}	-0.517647058824	$+0.97x_9 +0.94x_{15} +0.54x_2 +0.41x_5 +0.16x_{13} +0.92x_8$
x_{22}	-0.688235294118	$+0.22x_9 +0.36x_{15} +0.76x_2 +0.87x_5 +0.33x_{13} +0.13x_8$
x_{23}	-0.905882352941	$+0.84x_9 +1.00x_{15} +0.80x_2 +0.17x_5 +0.14x_{13} +0.75x_8$
x_{24}	-0.1	$+0.95x_9 +0.10x_{15} +0.50x_2 +0.70x_5 +0.95x_{13} +0.10x_8$
x_{25}	-0.605882352941	$+0.99x_9 +0.70x_{15} +0.30x_2 +0.07x_5 +0.29x_{13} +0.45x_8$
x_{26}	-0.923529411765	$+0.91x_9 +0.58x_{15} +0.98x_2 +0.36x_5 +0.69x_{13} +0.03x_8$
x_{27}	-0.517647058824	$+0.97x_9 +0.94x_{15} +0.54x_2 +0.41x_5 +0.16x_{13} +0.92x_8$
x_{28}	-0.311764705882	$+0.78x_9 +0.64x_{15} +0.24x_2 +0.13x_5 +0.67x_{13} +0.87x_8$
x_{29}	-0.0941176470588	$+0.16x_9 +0.00x_{15} +0.20x_2 +0.83x_5 +0.86x_{13} +0.25x_8$
x_{30}	-0.505882352941	$+0.04x_9 +0.60x_{15} +0.80x_2 +0.37x_5 +0.34x_{13} +0.35x_8$
z	28.0647058824	$-0.16x_9 -0.08x_{15} -3.28x_2 -4.60x_5 -0.48x_{13} -0.40x_8$

Forming the dual dictionary:
The Final Dual Dictionary is:

Final primal dictionary obtained:

x_7	12.081300813	$+2.17x_9$	$-0.87x_{20}$	$-8.40x_2$	$-1.82x_5$	$-1.38x_{14}$ $+3.01x_8$
x_6	0.459349593496	$-0.09x_9$	$-0.07x_{20}$	$+0.70x_2$	$+0.41x_5$	$+0.19x_{14}$ $-0.00x_8$
x_1	2.65650406504	$+0.03x_9$	$+0.08x_{20}$	$+0.44x_2$	$-0.50x_5$	$-0.09x_{14}$ $-0.14x_8$
x_{12}	36.843495935	$+0.97x_9$	$-2.58x_{20}$	$+0.06x_2$	$-12.00x_5$	$+0.09x_{14}$ $+2.14x_8$
x_3	0.84756097561	$+0.17x_9$	$-0.12x_{20}$	$-0.76x_2$	$-0.10x_5$	$-0.03x_{14}$ $+0.24x_8$
x_4	4.78048780488	$+0.07x_9$	$-0.33x_{20}$	$-0.40x_2$	$-0.43x_5$	$+0.11x_{14}$ $+0.25x_8$
x_{13}	0.459349593496	$-0.09x_9$	$+0.93x_{20}$	$-0.30x_2$	$-0.59x_5$	$+0.19x_{14}$ $-0.00x_8$
x_{10}	0.459349593496	$-0.09x_9$	$-0.07x_{20}$	$-0.30x_2$	$-0.59x_5$	$+1.19x_{14}$ $-0.00x_8$
x_{11}	4.08130081301	$-1.16x_9$	$+3.80x_{20}$	$-1.73x_2$	$-3.48x_5$	$-1.05x_{14}$ $-3.66x_8$
x_{16}	2.15650406504	$+0.03x_9$	$+2.58x_{20}$	$-1.06x_2$	$-2.00x_5$	$-0.09x_{14}$ $-2.14x_8$
x_{17}	0.15243902439	$+0.83x_9$	$+0.12x_{20}$	$+0.76x_2$	$+0.10x_5$	$+0.03x_{14}$ $+0.76x_8$
x_{18}	0.678861788618	$-0.15x_9$	$+0.26x_{20}$	$+0.10x_2$	$-0.16x_5$	$+1.09x_{14}$ $-0.25x_8$
x_{15}	3.42479674797	$-0.19x_9$	$+3.72x_{20}$	$-1.17x_2$	$-2.99x_5$	$-0.96x_{14}$ $-3.52x_8$
x_{19}	0.965447154472	$-0.11x_9$	$+1.79x_{20}$	$+0.13x_2$	$-0.39x_5$	$-0.15x_{14}$ $-0.52x_8$
x_{21}	2.76829268293	$+0.77x_9$	$+3.64x_{20}$	$-0.61x_2$	$-2.49x_5$	$-0.87x_{14}$ $-2.38x_8$
x_{22}	0.697154471545	$+0.12x_9$	$+1.65x_{20}$	$+0.24x_2$	$-0.40x_5$	$-0.28x_{14}$ $-1.14x_8$
x_{23}	2.57723577236	$+0.63x_9$	$+3.84x_{20}$	$-0.41x_2$	$-2.89x_5$	$-0.93x_{14}$ $-2.76x_8$
x_{24}	0.678861788618	$+0.85x_9$	$+1.26x_{20}$	$+0.10x_2$	$-0.16x_5$	$+0.09x_{14}$ $-0.25x_8$
x_{25}	1.91869918699	$+0.83x_9$	$+2.87x_{20}$	$-0.60x_2$	$-2.18x_5$	$-0.62x_{14}$ $-2.01x_8$
x_{26}	1.37804878049	$+0.74x_9$	$+2.80x_{20}$	$+0.09x_2$	$-1.78x_5$	$-0.42x_{14}$ $-2.01x_8$
x_{27}	2.76829268293	$+0.77x_9$	$+3.64x_{20}$	$-0.61x_2$	$-2.49x_5$	$-0.87x_{14}$ $-2.38x_8$
x_{28}	2.18699186992	$+0.60x_9$	$+3.01x_{20}$	$-0.71x_2$	$-2.18x_5$	$-0.49x_{14}$ $-1.39x_8$
x_{29}	0.306910569106	$+0.09x_9$	$+0.81x_{20}$	$-0.06x_2$	$+0.31x_5$	$+0.16x_{14}$ $+0.24x_8$
x_{30}	1.69918699187	$-0.11x_9$	$+2.54x_{20}$	$-0.00x_2$	$-1.62x_5$	$-0.51x_{14}$ $-1.75x_8$
z	27.5630081301	$-0.10x_9$	$-0.76x_{20}$	$-3.04x_2$	$-4.07x_5$	$-0.01x_{14}$ $-0.11x_8$

After cutting plane is added

x_7	12.081300813	$+2.17x_9 -0.87x_{20} -8.40x_2 -1.82x_5 -1.38x_{14} +3.01x_8$
x_6	0.459349593496	$-0.09x_9 -0.07x_{20} +0.70x_2 +0.41x_5 +0.19x_{14} -0.00x_8$
x_1	2.65650406504	$+0.03x_9 +0.08x_{20} +0.44x_2 -0.50x_5 -0.09x_{14} -0.14x_8$
x_{12}	36.843495935	$+0.97x_9 -2.58x_{20} +0.06x_2 -12.00x_5 +0.09x_{14} +2.14x_8$
x_3	0.84756097561	$+0.17x_9 -0.12x_{20} -0.76x_2 -0.10x_5 -0.03x_{14} +0.24x_8$
x_4	4.78048780488	$+0.07x_9 -0.33x_{20} -0.40x_2 -0.43x_5 +0.11x_{14} +0.25x_8$
x_{13}	0.459349593496	$-0.09x_9 +0.93x_{20} -0.30x_2 -0.59x_5 +0.19x_{14} -0.00x_8$
x_{10}	0.459349593496	$-0.09x_9 -0.07x_{20} -0.30x_2 -0.59x_5 +1.19x_{14} -0.00x_8$
x_{11}	4.08130081301	$-1.16x_9 +3.80x_{20} -1.73x_2 -3.48x_5 -1.05x_{14} -3.66x_8$
x_{16}	2.15650406504	$+0.03x_9 +2.58x_{20} -1.06x_2 -2.00x_5 -0.09x_{14} -2.14x_8$
x_{17}	0.15243902439	$+0.83x_9 +0.12x_{20} +0.76x_2 +0.10x_5 +0.03x_{14} +0.76x_8$
x_{18}	0.678861788618	$-0.15x_9 +0.26x_{20} +0.10x_2 -0.16x_5 +1.09x_{14} -0.25x_8$
x_{15}	3.42479674797	$-0.19x_9 +3.72x_{20} -1.17x_2 -2.99x_5 -0.96x_{14} -3.52x_8$
x_{19}	0.965447154472	$-0.11x_9 +1.79x_{20} +0.13x_2 -0.39x_5 -0.15x_{14} -0.52x_8$
x_{21}	2.76829268293	$+0.77x_9 +3.64x_{20} -0.61x_2 -2.49x_5 -0.87x_{14} -2.38x_8$
x_{22}	0.697154471545	$+0.12x_9 +1.65x_{20} +0.24x_2 -0.40x_5 -0.28x_{14} -1.14x_8$
x_{23}	2.57723577236	$+0.63x_9 +3.84x_{20} -0.41x_2 -2.89x_5 -0.93x_{14} -2.76x_8$
x_{24}	0.678861788618	$+0.85x_9 +1.26x_{20} +0.10x_2 -0.16x_5 +0.09x_{14} -0.25x_8$
x_{25}	1.91869918699	$+0.83x_9 +2.87x_{20} -0.60x_2 -2.18x_5 -0.62x_{14} -2.01x_8$
x_{26}	1.37804878049	$+0.74x_9 +2.80x_{20} +0.09x_2 -1.78x_5 -0.42x_{14} -2.01x_8$
x_{27}	2.76829268293	$+0.77x_9 +3.64x_{20} -0.61x_2 -2.49x_5 -0.87x_{14} -2.38x_8$
x_{28}	2.18699186992	$+0.60x_9 +3.01x_{20} -0.71x_2 -2.18x_5 -0.49x_{14} -1.39x_8$
x_{29}	0.306910569106	$+0.09x_9 +0.81x_{20} -0.06x_2 +0.31x_5 +0.16x_{14} +0.24x_8$
x_{30}	1.69918699187	$-0.11x_9 +2.54x_{20} -0.00x_2 -1.62x_5 -0.51x_{14} -1.75x_8$
x_{31}	−0.0813008130081	$+0.83x_9 +0.87x_{20} +0.40x_2 +0.82x_5 +0.38x_{14} +0.99x_8$
x_{32}	−0.459349593496	$+0.09x_9 +0.07x_{20} +0.30x_2 +0.59x_5 +0.81x_{14} +0.00x_8$
x_{33}	−0.656504065041	$+0.97x_9 +0.92x_{20} +0.56x_2 +0.50x_5 +0.09x_{14} +0.14x_8$
x_{34}	−0.843495934959	$+0.03x_9 +0.58x_{20} +0.94x_2 +0.00x_5 +0.91x_{14} +0.86x_8$
x_{35}	−0.84756097561	$+0.83x_9 +0.12x_{20} +0.76x_2 +0.10x_5 +0.03x_{14} +0.76x_8$
x_{36}	−0.780487804878	$+0.93x_9 +0.33x_{20} +0.40x_2 +0.43x_5 +0.89x_{14} +0.75x_8$
x_{37}	−0.459349593496	$+0.09x_9 +0.07x_{20} +0.30x_2 +0.59x_5 +0.81x_{14} +0.00x_8$
x_{38}	−0.459349593496	$+0.09x_9 +0.07x_{20} +0.30x_2 +0.59x_5 +0.81x_{14} +0.00x_8$
x_{39}	−0.0813008130082	$+0.16x_9 +0.20x_{20} +0.73x_2 +0.48x_5 +0.05x_{14} +0.66x_8$
x_{40}	−0.156504065041	$+0.97x_9 +0.42x_{20} +0.06x_2 +1.00x_5 +0.09x_{14} +0.14x_8$
x_{41}	−0.15243902439	$+0.17x_9 +0.88x_{20} +0.24x_2 +0.90x_5 +0.97x_{14} +0.24x_8$
x_{42}	−0.678861788618	$+0.15x_9 +0.74x_{20} +0.90x_2 +0.16x_5 +0.91x_{14} +0.25x_8$
x_{43}	−0.424796747968	$+0.19x_9 +0.28x_{20} +0.17x_2 +0.99x_5 +0.96x_{14} +0.52x_8$
x_{44}	−0.965447154472	$+0.11x_9 +0.21x_{20} +0.87x_2 +0.39x_5 +0.15x_{14} +0.52x_8$
x_{45}	−0.768292682927	$+0.23x_9 +0.36x_{20} +0.61x_2 +0.49x_5 +0.87x_{14} +0.38x_8$
x_{46}	−0.697154471545	$+0.88x_9 +0.35x_{20} +0.76x_2 +0.40x_5 +0.28x_{14} +0.14x_8$
x_{47}	−0.577235772358	$+0.37x_9 +0.16x_{20} +0.41x_2 +0.89x_5 +0.93x_{14} +0.76x_8$
x_{48}	−0.678861788618	$+0.15x_9 +0.74x_{20} +0.90x_2 +0.16x_5 +0.91x_{14} +0.25x_8$
x_{49}	−0.918699186992	$+0.17x_9 +0.13x_{20} +0.60x_2 +0.18x_5 +0.62x_{14} +0.01x_8$
x_{50}	−0.378048780488	$+0.26x_9 +0.20x_{20} +0.91x_2 +0.78x_5 +0.42x_{14} +0.01x_8$
x_{51}	−0.768292682927	$+0.23x_9 +0.36x_{20} +0.61x_2 +0.49x_5 +0.87x_{14} +0.38x_8$
x_{52}	−0.186991869919	$+0.40x_9 +0.99x_{20} +0.71x_2 +0.18x_5 +0.49x_{14} +0.39x_8$
x_{53}	−0.306910569106	$+0.91x_9 +0.19x_{20} +0.06x_2 +0.69x_5 +0.84x_{14} +0.76x_8$
x_{54}	−0.69918699187	$+0.11x_9 +0.46x_{20} +0.00x_2 +0.62x_5 +0.51x_{14} +0.75x_8$
z	27.5630081301	$-0.10x_9 -0.76x_{20} -3.04x_2 -4.07x_5 -0.01x_{14} -0.11x_8$

Forming the dual dictionary:

The Final Dual Dictionary is:

Final primal dictionary obtained:

x_7	8.94980694981	$+9.62x_{35}$	$+3.73x_{11}$	$-4.56x_2$	$+7.52x_5$	$-9.48x_{22}$ $-2.78x_{44}$
x_6	1.08494208494	$-0.81x_{35}$	$-0.38x_{11}$	$+0.13x_2$	$-0.64x_5$	$+0.86x_{22}$ $+0.36x_{44}$
x_1	2.31274131274	$+0.23x_{35}$	$+0.09x_{11}$	$+0.69x_2$	$-0.15x_5$	$-0.15x_{22}$ $-0.27x_{44}$
x_{12}	37.2586872587	$+2.20x_{35}$	$+0.34x_{11}$	$+1.02x_2$	$-11.28x_5$	$-2.28x_{22}$ $-1.73x_{44}$
x_3	0.864864864865	$+0.43x_{35}$	$+0.11x_{11}$	$-0.69x_2$	$+0.16x_5$	$-0.34x_{22}$ $-0.15x_{44}$
x_4	5.14285714286	$-0.14x_{35}$	$-0.14x_{11}$	$-0.57x_2$	$-0.86x_5$	$+0.14x_{22}$ $+0.00x_{44}$
x_{13}	1.60617760618	$-0.77x_{35}$	$-0.23x_{11}$	$-1.71x_2$	$-1.56x_5$	$+0.94x_{22}$ $+1.58x_{44}$
x_{10}	4.6833976834	$-4.87x_{35}$	$-2.58x_{11}$	$-4.31x_2$	$-7.51x_5$	$+5.99x_{22}$ $+2.09x_{44}$
x_{20}	0.521235521236	$+0.05x_{35}$	$+0.15x_{11}$	$-0.84x_2$	$+0.09x_5$	$+0.09x_{22}$ $+1.22x_{44}$
x_{16}	2.09652509653	$-1.88x_{35}$	$-0.93x_{11}$	$-2.51x_2$	$-3.69x_5$	$+3.81x_{22}$ $+0.39x_{44}$
x_{17}	1.0	$+1.00x_{35}$	$+0.00x_{11}$	$-0.00x_2$	$+0.00x_5$	$-0.00x_{22}$ $+0.00x_{44}$
x_{18}	4.54054054054	$-4.73x_{35}$	$-2.43x_{11}$	$-3.74x_2$	$-6.65x_5$	$+5.85x_{22}$ $+2.09x_{44}$
x_9	0.355212355212	$+0.32x_{35}$	$-0.60x_{11}$	$-0.49x_2$	$-0.97x_5$	$+1.53x_{22}$ $-1.34x_{44}$
x_{19}	1.04247104247	$+0.09x_{35}$	$+0.31x_{11}$	$-0.68x_2$	$+0.18x_5$	$+0.18x_{22}$ $+1.43x_{44}$
x_{21}	0.594594594595	$+1.30x_{35}$	$+0.32x_{11}$	$-0.57x_2$	$-0.51x_5$	$+1.49x_{22}$ $-0.95x_{44}$
x_{15}	0.042471042471	$+0.09x_{35}$	$+0.31x_{11}$	$-0.18x_2$	$-0.82x_5$	$+1.68x_{22}$ $-1.07x_{44}$
x_{23}	0.042471042471	$+1.09x_{35}$	$+0.31x_{11}$	$-0.18x_2$	$-0.82x_5$	$+1.68x_{22}$ $-1.07x_{44}$
x_{24}	1.81853281853	$-0.31x_{35}$	$-0.68x_{11}$	$-1.63x_2$	$-1.67x_5$	$+2.33x_{22}$ $+0.24x_{44}$
x_{25}	0.471042471042	$+0.66x_{35}$	$-0.12x_{11}$	$-0.90x_2$	$-1.39x_5$	$+2.11x_{22}$ $-1.07x_{44}$
x_{26}	0.555984555985	$-0.15x_{35}$	$-0.50x_{11}$	$-0.76x_2$	$-2.04x_5$	$+2.96x_{22}$ $-0.70x_{44}$
x_{27}	0.594594594595	$+1.30x_{35}$	$+0.32x_{11}$	$-0.57x_2$	$-0.51x_5$	$+1.49x_{22}$ $-0.95x_{44}$
x_{28}	1.51351351351	$+0.76x_{35}$	$+0.19x_{11}$	$-1.58x_2$	$-1.22x_5$	$+1.28x_{22}$ $+0.36x_{44}$
x_{29}	1.47104247104	$-0.34x_{35}$	$-0.12x_{11}$	$-1.40x_2$	$-0.39x_5$	$+0.61x_{22}$ $+1.43x_{44}$
x_{30}	0.258687258687	$+0.20x_{35}$	$+0.34x_{11}$	$+0.02x_2$	$-0.28x_5$	$+0.72x_{22}$ $+0.27x_{44}$
x_{14}	3.59845559846	$-4.06x_{35}$	$-2.19x_{11}$	$-3.45x_2$	$-5.86x_5$	$+5.14x_{22}$ $+1.73x_{44}$
x_{31}	2.55598455598	$-0.15x_{35}$	$-0.50x_{11}$	$-2.26x_2$	$-1.04x_5$	$+1.46x_{22}$ $+1.80x_{44}$
x_{34}	3.18146718147	$-2.69x_{35}$	$-1.32x_{11}$	$-2.87x_2$	$-4.33x_5$	$+3.17x_{22}$ $+3.26x_{44}$
x_{32}	2.51351351351	$-3.24x_{35}$	$-1.81x_{11}$	$-2.58x_2$	$-4.22x_5$	$+4.28x_{22}$ $+1.36x_{44}$
x_{33}	0.563706563707	$+0.14x_{35}$	$-0.54x_{11}$	$-1.03x_2$	$-0.73x_5$	$+1.77x_{22}$ $+0.15x_{44}$
x_{36}	3.32046332046	$-2.48x_{35}$	$-1.94x_{11}$	$-3.57x_2$	$-4.84x_5$	$+4.66x_{22}$ $+1.58x_{44}$
x_{37}	2.51351351351	$-3.24x_{35}$	$-1.81x_{11}$	$-2.58x_2$	$-4.22x_5$	$+4.28x_{22}$ $+1.36x_{44}$
x_{38}	2.51351351351	$-3.24x_{35}$	$-1.81x_{11}$	$-2.58x_2$	$-4.22x_5$	$+4.28x_{22}$ $+1.36x_{44}$
x_{39}	0.602316602317	$+0.59x_{35}$	$+0.29x_{11}$	$+0.17x_2$	$+0.79x_5$	$-0.71x_{22}$ $+0.91x_{44}$
x_{40}	0.803088803089	$+0.12x_{35}$	$-0.61x_{11}$	$-1.10x_2$	$-0.28x_5$	$+1.72x_{22}$ $-0.46x_{44}$
x_{41}	3.98455598456	$-3.58x_{35}$	$-1.93x_{11}$	$-3.98x_2$	$-4.61x_5$	$+4.89x_{22}$ $+2.80x_{44}$
x_{42}	3.17760617761	$-3.34x_{35}$	$-1.80x_{11}$	$-2.99x_2$	$-4.98x_5$	$+4.52x_{22}$ $+2.58x_{44}$
x_{43}	3.51351351351	$-3.24x_{35}$	$-1.81x_{11}$	$-3.58x_2$	$-4.22x_5$	$+4.28x_{22}$ $+2.36x_{44}$
x_8	0.509652509653	$+1.11x_{35}$	$+0.71x_{11}$	$-0.20x_2$	$+1.13x_5$	$-1.87x_{22}$ $+1.19x_{44}$
x_{45}	2.82625482625	$-3.02x_{35}$	$-1.72x_{11}$	$-2.89x_2$	$-4.36x_5$	$+4.14x_{22}$ $+2.09x_{44}$
x_{46}	0.888030888031	$-0.70x_{35}$	$-1.00x_{11}$	$-0.97x_2$	$-1.92x_5$	$+2.58x_{22}$ $-0.09x_{44}$
x_{47}	3.37837837838	$-2.81x_{35}$	$-1.70x_{11}$	$-3.27x_2$	$-4.05x_5$	$+3.95x_{22}$ $+2.22x_{44}$
x_{48}	3.17760617761	$-3.34x_{35}$	$-1.80x_{11}$	$-2.99x_2$	$-4.98x_5$	$+4.52x_{22}$ $+2.58x_{44}$
x_{49}	1.42857142857	$-2.43x_{35}$	$-1.43x_{11}$	$-1.71x_2$	$-3.57x_5$	$+3.43x_{22}$ $+1.00x_{44}$
x_{50}	1.34362934363	$-1.61x_{35}$	$-1.05x_{11}$	$-0.85x_2$	$-1.93x_5$	$+2.57x_{22}$ $+0.64x_{44}$
x_{51}	2.82625482625	$-3.02x_{35}$	$-1.72x_{11}$	$-2.89x_2$	$-4.36x_5$	$+4.14x_{22}$ $+2.09x_{44}$
x_{52}	2.41698841699	$-1.36x_{35}$	$-0.88x_{11}$	$-2.07x_2$	$-2.53x_5$	$+2.47x_{22}$ $+1.97x_{44}$
x_{53}	3.51351351351	$-2.24x_{35}$	$-1.88x_{11}$	$-3.58x_2$	$-4.22x_5$	$+4.28x_{22}$ $+1.36x_{44}$
x_{54}	1.79536679537	$-1.17x_{35}$	$-0.58x_{11}$	$-2.34x_2$	$-1.58x_5$	$+1.42x_{22}$ $+2.19x_{44}$
z	27.0231660232	$-0.13x_{35}$	$-0.10x_{11}$	$-2.28x_2$	$-4.08x_5$	$-0.08x_{22}$ $-0.95x_{44}$

After cutting plane is added

x_7	8.94980694981	$+9.62x_{35} +3.73x_{11} -4.56x_2 +7.52x_5 -9.48x_{22} -2.78x_{44}$
x_6	1.08494208494	$-0.81x_{35} -0.38x_{11} +0.13x_2 -0.64x_5 +0.86x_{22} +0.36x_{44}$
x_1	2.31274131274	$+0.23x_{35} +0.09x_{11} +0.69x_2 -0.15x_5 -0.15x_{22} -0.27x_{44}$
x_{12}	37.2586872587	$+2.20x_{35} +0.34x_{11} +1.02x_2 -11.28x_5 -2.28x_{22} -1.73x_{44}$
x_3	0.864864864865	$+0.43x_{35} +0.11x_{11} -0.69x_2 +0.16x_5 -0.34x_{22} -0.15x_{44}$
x_4	5.14285714286	$-0.14x_{35} -0.14x_{11} -0.57x_2 -0.86x_5 +0.14x_{22} +0.00x_{44}$
x_{13}	1.60617760618	$-0.77x_{35} -0.23x_{11} -1.71x_2 -1.56x_5 +0.94x_{22} +1.58x_{44}$
x_{10}	4.6833976834	$-4.87x_{35} -2.58x_{11} -4.31x_2 -7.51x_5 +5.99x_{22} +2.09x_{44}$
x_{20}	0.521235521236	$+0.05x_{35} +0.15x_{11} -0.84x_2 +0.09x_5 +0.09x_{22} +1.22x_{44}$
x_{16}	2.09652509653	$-1.88x_{35} -0.93x_{11} -2.51x_2 -3.69x_5 +3.81x_{22} +0.39x_{44}$
x_{17}	1.0	$+1.00x_{35} +0.00x_{11} -0.00x_2 +0.00x_5 -0.00x_{22} +0.00x_{44}$
x_{18}	4.54054054054	$-4.73x_{35} -2.43x_{11} -3.74x_2 -6.65x_5 +5.85x_{22} +2.09x_{44}$
x_9	0.355212355212	$+0.32x_{35} -0.60x_{11} -0.49x_2 -0.97x_5 +1.53x_{22} -1.34x_{44}$
x_{19}	1.04247104247	$+0.09x_{35} +0.31x_{11} -0.68x_2 +0.18x_5 +0.18x_{22} +1.43x_{44}$
x_{21}	0.594594594595	$+1.30x_{35} +0.32x_{11} -0.57x_2 -0.51x_5 +1.49x_{22} -0.95x_{44}$
x_{15}	0.042471042471	$+0.09x_{35} +0.31x_{11} -0.18x_2 -0.82x_5 +1.68x_{22} -1.07x_{44}$
x_{23}	0.042471042471	$+1.09x_{35} +0.31x_{11} -0.18x_2 -0.82x_5 +1.68x_{22} -1.07x_{44}$
x_{24}	1.81853281853	$-0.31x_{35} -0.68x_{11} -1.63x_2 -1.67x_5 +2.33x_{22} +0.24x_{44}$
x_{25}	0.471042471042	$+0.66x_{35} -0.12x_{11} -0.90x_2 -1.39x_5 +2.11x_{22} -1.07x_{44}$
x_{26}	0.555984555985	$-0.15x_{35} -0.50x_{11} -0.76x_2 -2.04x_5 +2.96x_{22} -0.70x_{44}$
x_{27}	0.594594594595	$+1.30x_{35} +0.32x_{11} -0.57x_2 -0.51x_5 +1.49x_{22} -0.95x_{44}$
x_{28}	1.51351351351	$+0.76x_{35} +0.19x_{11} -1.58x_2 -1.22x_5 +1.28x_{22} +0.36x_{44}$
x_{29}	1.47104247104	$-0.34x_{35} -0.12x_{11} -1.40x_2 -0.39x_5 +0.61x_{22} +1.43x_{44}$
x_{30}	0.258687258687	$+0.20x_{35} +0.34x_{11} +0.02x_2 -0.28x_5 +0.72x_{22} +0.27x_{44}$
x_{14}	3.59845559846	$-4.06x_{35} -2.19x_{11} -3.45x_2 -5.86x_5 +5.14x_{22} +1.73x_{44}$
x_{31}	2.55598455598	$-0.15x_{35} -0.50x_{11} -2.26x_2 -1.04x_5 +1.46x_{22} +1.80x_{44}$
x_{34}	3.18146718147	$-2.69x_{35} -1.32x_{11} -2.87x_2 -4.33x_5 +3.17x_{22} +3.26x_{44}$
x_{32}	2.51351351351	$-3.24x_{35} -1.81x_{11} -2.58x_2 -4.22x_5 +4.28x_{22} +1.36x_{44}$
x_{33}	0.563706563707	$+0.14x_{35} -0.54x_{11} -1.03x_2 -0.73x_5 +1.77x_{22} +0.15x_{44}$
x_{36}	3.32046332046	$-2.48x_{35} -1.94x_{11} -3.57x_2 -4.84x_5 +4.66x_{22} +1.58x_{44}$
x_{37}	2.51351351351	$-3.24x_{35} -1.81x_{11} -2.58x_2 -4.22x_5 +4.28x_{22} +1.36x_{44}$
x_{38}	2.51351351351	$-3.24x_{35} -1.81x_{11} -2.58x_2 -4.22x_5 +4.28x_{22} +1.36x_{44}$
x_{39}	0.602316602317	$+0.59x_{35} +0.29x_{11} +0.17x_2 +0.79x_5 -0.71x_{22} +0.91x_{44}$
x_{40}	0.803088803089	$+0.12x_{35} -0.61x_{11} -1.10x_2 -0.28x_5 +1.72x_{22} -0.46x_{44}$
x_{41}	3.98455598456	$-3.58x_{35} -1.93x_{11} -3.98x_2 -4.61x_5 +4.89x_{22} +2.80x_{44}$
x_{42}	3.17760617761	$-3.34x_{35} -1.80x_{11} -2.99x_2 -4.98x_5 +4.52x_{22} +2.58x_{44}$
x_{43}	3.51351351351	$-3.24x_{35} -1.81x_{11} -3.58x_2 -4.22x_5 +4.28x_{22} +2.36x_{44}$
x_8	0.509652509653	$+1.11x_{35} +0.71x_{11} -0.20x_2 +1.13x_5 -1.87x_{22} +1.19x_{44}$
x_{45}	2.82625482625	$-3.02x_{35} -1.72x_{11} -2.89x_2 -4.36x_5 +4.14x_{22} +2.09x_{44}$
x_{46}	0.888030888031	$-0.70x_{35} -1.00x_{11} -0.97x_2 -1.92x_5 +2.58x_{22} -0.09x_{44}$
x_{47}	3.37837837838	$-2.81x_{35} -1.70x_{11} -3.27x_2 -4.05x_5 +3.95x_{22} +2.22x_{44}$
x_{48}	3.17760617761	$-3.34x_{35} -1.80x_{11} -2.99x_2 -4.98x_5 +4.52x_{22} +2.58x_{44}$
x_{49}	1.42857142857	$-2.43x_{35} -1.43x_{11} -1.71x_2 -3.57x_5 +3.43x_{22} +1.00x_{44}$
x_{50}	1.34362934363	$-1.61x_{35} -1.05x_{11} -0.85x_2 -1.93x_5 +2.57x_{22} +0.64x_{44}$
x_{51}	2.82625482625	$-3.02x_{35} -1.72x_{11} -2.89x_2 -4.36x_5 +4.14x_{22} +2.09x_{44}$
x_{52}	2.41698841699	$-1.36x_{35} -0.88x_{11} -2.07x_2 -2.53x_5 +2.47x_{22} +1.97x_{44}$
x_{53}	3.51351351351	$-2.24x_{35} -1.81x_{11} -3.58x_2 -4.22x_5 +4.28x_{22} +1.36x_{44}$
x_{54}	1.79536679537	$-1.17x_{35} -0.58x_{11} -2.34x_2 -1.58x_5 +1.42x_{22} +2.19x_{44}$
x_{55}	-0.949806949807	$+0.38x_{35} +0.27x_{11} +0.56x_2 +0.48x_5 +0.48x_{22} +0.78x_{44}$
x_{56}	-0.0849420849421	$+0.81x_{35} +0.38x_{11} +0.87x_2 +0.64x_5 +0.14x_{22} +0.64x_{44}$
x_{57}	-0.312741312741	$+0.77x_{35} +0.91x_{11} +0.31x_2 +0.15x_5 +0.15x_{22} +0.27x_{44}$
x_{58}	-0.258687258687	$+0.80x_{35} +0.66x_{11} +0.98x_2 +0.28x_5 +0.28x_{22} +0.73x_{44}$
x_{59}	-0.864864864865	$+0.57x_{35} +0.89x_{11} +0.69x_2 +0.84x_5 +0.34x_{22} +0.15x_{44}$
x_{60}	-0.142857142857	$+0.14x_{35} +0.14x_{11} +0.57x_2 +0.86x_5 +0.86x_{22} +1.00x_{44}$
x_{61}	-0.606177606178	$+0.77x_{35} +0.23x_{11} +0.71x_2 +0.56x_5 +0.06x_{22} +0.42x_{44}$
x_{62}	-0.683397683398	$+0.87x_{35} +0.58x_{11} +0.31x_2 +0.51x_5 +0.01x_{22} +0.91x_{44}$
x_{63}	-0.521235521236	$+0.95x_{35} +0.85x_{11} +0.84x_2 +0.91x_5 +0.91x_{22} +0.78x_{44}$
x_{64}	-0.0965250965251	$+0.88x_{35} +0.93x_{11} +0.51x_2 +0.69x_5 +0.19x_{22} +0.61x_{44}$
x_{65}	-0.540540540541	$+0.73x_{35} +0.43x_{11} +0.74x_2 +0.65x_5 +0.15x_{22} +0.91x_{44}$

Forming the dual dictionary:

The Final Dual Dictionary is:

Final primal dictionary obtained:

$$
\begin{array}{c|c|rrrrrr}
x_{35} & 0.651162790698 & +0.47x_8 & -1.71x_{73} & +0.33x_2 & -1.40x_5 & +1.94x_{55} & -0.87x_{44} \\
x_6 & 1.06976744186 & -0.59x_8 & +0.38x_{73} & +0.03x_2 & +0.28x_5 & -0.55x_{55} & +1.24x_{44} \\
x_1 & 2.39534883721 & +0.14x_8 & -0.15x_{73} & +0.70x_2 & -0.42x_5 & +0.25x_{55} & -0.53x_{44} \\
x_{12} & 36.7441860465 & +1.67x_8 & -2.77x_{73} & +2.37x_2 & -14.02x_5 & +1.98x_{55} & -3.33x_{44} \\
x_3 & 0.906976744186 & +0.29x_8 & -0.45x_{73} & -0.55x_2 & -0.37x_5 & +0.46x_{55} & -0.54x_{44} \\
x_4 & 5.06976744186 & -0.09x_8 & -0.12x_{73} & -0.47x_2 & -0.72x_5 & -0.05x_{55} & +0.24x_{44} \\
x_{13} & 1.83720930233 & -0.62x_8 & +0.68x_{73} & -2.08x_2 & -0.65x_5 & -0.48x_{55} & +2.22x_{44} \\
x_{10} & 5.20930232558 & -3.78x_8 & +1.46x_{73} & -4.90x_2 & -2.16x_5 & -2.33x_{55} & +7.39x_{44} \\
x_{20} & 0.767441860465 & -0.02x_8 & +0.30x_{73} & -1.12x_2 & +0.07x_5 & +0.07x_{55} & +0.98x_{44} \\
x_{16} & 3.81395348837 & -1.92x_8 & +0.61x_{73} & -3.59x_2 & -1.74x_5 & +0.42x_{55} & +1.91x_{44} \\
x_{17} & 1.6511627907 & +0.47x_8 & -1.71x_{73} & +0.33x_2 & -1.40x_5 & +1.94x_{55} & -0.87x_{44} \\
x_{18} & 5.13953488372 & -3.69x_8 & +1.59x_{73} & -4.43x_2 & -1.44x_5 & -2.28x_{55} & +7.15x_{44} \\
x_9 & 1.55813953488 & -0.24x_8 & -2.16x_{73} & -0.22x_2 & -1.77x_5 & +2.40x_{55} & -1.41x_{44} \\
x_{19} & 1.53488372093 & -0.05x_8 & +0.60x_{73} & -1.23x_2 & +0.14x_5 & +0.14x_{55} & +0.95x_{44} \\
x_{21} & 3.16279069767 & +0.12x_8 & -1.51x_{73} & -1.42x_2 & -2.35x_5 & +3.65x_{55} & -2.88x_{44} \\
x_{15} & 2.0 & -0.50x_8 & +0.50x_{73} & -1.50x_2 & -1.00x_5 & +1.50x_{55} & -2.00x_{44} \\
x_{23} & 2.6511627907 & -0.03x_8 & -1.21x_{73} & -1.17x_2 & -2.40x_5 & +3.44x_{55} & -2.87x_{44} \\
x_{24} & 3.32558139535 & -0.77x_8 & -1.36x_{73} & -1.84x_2 & -1.70x_5 & +1.97x_{55} & +0.57x_{44} \\
x_{25} & 2.86046511628 & -0.31x_8 & -1.59x_{73} & -1.57x_2 & -2.56x_5 & +3.28x_{55} & -2.15x_{44} \\
x_{26} & 2.93023255814 & -0.91x_8 & -1.21x_{73} & -1.53x_2 & -2.28x_5 & +2.72x_{55} & -0.91x_{44} \\
x_{27} & 3.16279069767 & +0.12x_8 & -1.51x_{73} & -1.42x_2 & -2.35x_5 & +3.65x_{55} & -2.88x_{44} \\
x_{28} & 3.41860465116 & -0.06x_8 & -0.91x_{73} & -2.29x_2 & -2.33x_5 & +2.51x_{55} & -0.89x_{44} \\
x_{29} & 1.74418604651 & -0.33x_8 & +0.23x_{73} & -1.63x_2 & -0.02x_5 & -0.02x_{55} & +1.67x_{44} \\
x_{30} & 1.37209302326 & -0.16x_8 & +0.45x_{73} & -0.81x_2 & -0.51x_5 & +0.82x_{55} & -0.50x_{44} \\
x_{14} & 4.13953488372 & -3.19x_8 & +1.09x_{73} & -3.93x_2 & -1.44x_5 & -1.78x_{55} & +6.15x_{44} \\
x_{31} & 3.46511627907 & -0.45x_8 & -1.10x_{73} & -2.27x_2 & -1.14x_5 & +1.36x_{55} & +2.05x_{44} \\
x_{34} & 3.41860465116 & -2.06x_8 & +1.09x_{73} & -3.29x_2 & -1.33x_5 & -1.49x_{55} & +6.11x_{44} \\
x_{32} & 3.06976744186 & -2.59x_8 & +0.71x_{73} & -2.97x_2 & -0.72x_5 & -1.22x_{55} & +4.91x_{44} \\
x_{33} & 1.93023255814 & -0.41x_8 & -1.71x_{73} & -1.03x_2 & -1.28x_5 & +2.22x_{55} & +0.09x_{44} \\
x_{36} & 4.62790697674 & -2.34x_8 & -0.95x_{73} & -3.69x_2 & -2.49x_5 & +0.68x_{55} & +4.50x_{44} \\
x_{37} & 3.06976744186 & -2.59x_8 & +0.71x_{73} & -2.97x_2 & -0.72x_5 & -1.22x_{55} & +4.91x_{44} \\
x_{38} & 3.06976744186 & -2.59x_8 & +0.71x_{73} & -2.97x_2 & -0.72x_5 & -1.22x_{55} & +4.91x_{44} \\
x_{39} & 0.53488372093 & +0.45x_8 & -0.23x_{73} & +0.27x_2 & +0.14x_5 & +0.31x_{55} & +0.29x_{44} \\
x_{40} & 2.04651162791 & -0.40x_8 & -1.86x_{73} & -0.98x_2 & -0.81x_5 & +2.19x_{55} & -0.40x_{44} \\
x_{41} & 4.81395348837 & -2.92x_8 & +0.94x_{73} & -4.59x_2 & -0.74x_5 & -1.24x_{55} & +6.58x_{44} \\
x_{42} & 3.90697674419 & -2.71x_8 & +0.89x_{73} & -3.55x_2 & -1.37x_5 & -1.21x_{55} & +6.12x_{44} \\
x_{43} & 4.06976744186 & -2.59x_8 & +0.71x_{73} & -3.97x_2 & -0.72x_5 & -1.22x_{55} & +5.91x_{44} \\
x_7 & 9.06976744186 & +6.91x_8 & -6.46x_{73} & -2.47x_2 & -3.72x_5 & +7.61x_{55} & -12.43x_{44} \\
x_{45} & 3.46511627907 & -2.45x_8 & +0.56x_{73} & -3.27x_2 & -1.14x_5 & -0.97x_{55} & +5.38x_{44} \\
x_{46} & 2.11627906977 & -0.99x_8 & -1.48x_{73} & -0.94x_2 & -1.53x_5 & +1.63x_{55} & +0.84x_{44} \\
x_{47} & 3.97674418605 & -2.30x_8 & +0.26x_{73} & -3.51x_2 & -1.09x_5 & -0.76x_{55} & +5.36x_{44} \\
x_{48} & 3.90697674419 & -2.71x_8 & +0.89x_{73} & -3.55x_2 & -1.37x_5 & -1.21x_{55} & +6.12x_{44} \\
x_{49} & 2.0 & -2.00x_8 & +0.33x_{73} & -2.00x_2 & -1.00x_5 & -0.67x_{55} & +3.67x_{44} \\
x_{50} & 1.93023255814 & -1.41x_8 & -0.04x_{73} & -1.03x_2 & -0.28x_5 & -0.11x_{55} & +2.43x_{44} \\
x_{51} & 3.46511627907 & -2.45x_8 & +0.56x_{73} & -3.27x_2 & -1.14x_5 & -0.97x_{55} & +5.38x_{44} \\
x_{52} & 3.20930232558 & -1.28x_8 & -0.04x_{73} & -2.40x_2 & -1.16x_5 & +0.17x_{55} & +3.39x_{44} \\
x_{53} & 4.72093023256 & -2.13x_8 & -1.01x_{73} & -3.64x_2 & -2.12x_5 & +0.72x_{55} & +4.04x_{44} \\
x_{54} & 1.93023255814 & -0.91x_8 & +0.46x_{73} & -2.53x_2 & -0.28x_5 & -0.61x_{55} & +3.43x_{44} \\
x_{22} & 0.976744186046 & -0.30x_8 & -0.07x_{73} & -0.51x_2 & -0.09x_5 & +0.91x_{55} & -0.30x_{44} \\
x_{56} & 0.906976744186 & +0.29x_8 & -0.45x_{73} & +0.45x_2 & -0.37x_5 & +1.46x_{55} & -0.54x_{44} \\
x_{57} & 1.09302325581 & +0.21x_8 & +0.95x_{73} & -0.95x_2 & -0.63x_5 & +1.04x_{55} & -1.46x_{44} \\
x_{58} & 1.09302325581 & +0.21x_8 & +0.28x_{73} & +0.05x_2 & -0.63x_5 & +1.37x_{55} & -0.79x_{44} \\
x_{59} & 0.581395348837 & +0.06x_8 & +1.24x_{73} & -0.71x_2 & +0.33x_5 & +0.83x_{55} & -1.44x_{44} \\
x_{60} & 0.906976744186 & -0.21x_8 & +0.05x_{73} & -0.05x_2 & +0.63x_5 & +0.96x_{55} & +0.46x_{44} \\
x_{61} & 0.139534883721 & +0.31x_8 & -0.75x_{73} & +0.57x_2 & -0.44x_5 & +1.39x_{55} & -0.52x_{44} \\
x_{62} & 0.372093023256 & +0.34x_8 & -0.05x_{73} & -0.31x_2 & -0.51x_5 & +1.32x_{55} & -0.50x_{44} \\
x_{63} & 1.6976744186 & +0.07x_8 & +0.43x_{73} & -0.65x_2 & -0.21x_5 & +2.12x_{55} & -1.26x_{44} \\
x_{64} & 1.44186046512 & +0.24x_8 & +0.83x_{73} & -0.78x_2 & -0.23x_5 & +1.27x_{55} & -1.26x_{44} \\
x_{65} & 0.441860465116 & +0.24x_8 & -0.17x_{73} & +0.22x_2 & -0.23x_5 & +1.27x_{55} & -0.26x_{44}
\end{array}
$$

After cutting plane is added

x_{35}	0.651162790698	$+0.47x_8 -1.71x_{73} +0.33x_2 -1.40x_5 +1.94x_{55} -0.87x_{44}$
x_6	1.06976744186	$-0.59x_8 +0.38x_{73} +0.03x_2 +0.28x_5 -0.55x_{55} +1.24x_{44}$
x_1	2.39534883721	$+0.14x_8 -0.15x_{73} +0.70x_2 -0.42x_5 +0.25x_{55} -0.53x_{44}$
x_{12}	36.7441860465	$+1.67x_8 -2.77x_{73} +2.37x_2 -14.02x_5 +1.98x_{55} -3.33x_{44}$
x_3	0.906976744186	$+0.29x_8 -0.45x_{73} -0.55x_2 -0.37x_5 +0.46x_{55} -0.54x_{44}$
x_4	5.06976744186	$-0.09x_8 -0.12x_{73} -0.47x_2 -0.72x_5 -0.05x_{55} +0.24x_{44}$
x_{13}	1.83720930233	$-0.62x_8 +0.68x_{73} -2.08x_2 -0.65x_5 -0.48x_{55} +2.22x_{44}$
x_{10}	5.20930232558	$-3.78x_8 +1.46x_{73} -4.90x_2 -2.16x_5 -2.33x_{55} +7.39x_{44}$
x_{20}	0.767441860465	$-0.02x_8 +0.30x_{73} -1.12x_2 +0.07x_5 +0.07x_{55} +0.98x_{44}$
x_{16}	3.81395348837	$-1.92x_8 +0.61x_{73} -3.59x_2 -1.74x_5 +0.42x_{55} +1.91x_{44}$
x_{17}	1.6511627907	$+0.47x_8 -1.71x_{73} +0.33x_2 -1.40x_5 +1.94x_{55} -0.87x_{44}$
x_{18}	5.13953488372	$-3.69x_8 +1.59x_{73} -4.43x_2 -1.44x_5 -2.28x_{55} +7.15x_{44}$
x_9	1.55813953488	$-0.24x_8 -2.16x_{73} -0.22x_2 -1.77x_5 +2.40x_{55} -1.41x_{44}$
x_{19}	1.53488372093	$-0.05x_8 +0.60x_{73} -1.23x_2 +0.14x_5 +0.14x_{55} +0.95x_{44}$
x_{21}	3.16279069767	$+0.12x_8 -1.51x_{73} -1.42x_2 -2.35x_5 +3.65x_{55} -2.88x_{44}$
x_{15}	2.0	$-0.50x_8 +0.50x_{73} -1.50x_2 -1.00x_5 +1.50x_{55} -2.00x_{44}$
x_{23}	2.6511627907	$-0.03x_8 -1.21x_{73} -1.17x_2 -2.40x_5 +3.44x_{55} -2.87x_{44}$
x_{24}	3.32558139535	$-0.77x_8 -1.36x_{73} -1.84x_2 -1.70x_5 +1.97x_{55} +0.57x_{44}$
x_{25}	2.86046511628	$-0.31x_8 -1.59x_{73} -1.57x_2 -2.56x_5 +3.28x_{55} -2.15x_{44}$
x_{26}	2.93023255814	$-0.91x_8 -1.21x_{73} -1.53x_2 -2.28x_5 +2.72x_{55} -0.91x_{44}$
x_{27}	3.16279069767	$+0.12x_8 -1.51x_{73} -1.42x_2 -2.35x_5 +3.65x_{55} -2.88x_{44}$
x_{28}	3.41860465116	$-0.06x_8 -0.91x_{73} -2.29x_2 -2.33x_5 +2.51x_{55} -0.89x_{44}$
x_{29}	1.74418604651	$-0.33x_8 +0.23x_{73} -1.63x_2 -0.02x_5 -0.02x_{55} +1.67x_{44}$
x_{30}	1.37209302326	$-0.16x_8 +0.45x_{73} -0.81x_2 -0.51x_5 +0.82x_{55} -0.50x_{44}$
x_{14}	4.13953488372	$-3.19x_8 +1.09x_{73} -3.93x_2 -1.44x_5 -1.78x_{55} +6.15x_{44}$
x_{31}	3.46511627907	$-0.45x_8 -1.10x_{73} -2.27x_2 -1.14x_5 +1.36x_{55} +2.05x_{44}$
x_{34}	3.41860465116	$-2.06x_8 +1.09x_{73} -3.29x_2 -1.33x_5 -1.49x_{55} +6.11x_{44}$
x_{32}	3.06976744186	$-2.59x_8 +0.71x_{73} -2.97x_2 -0.72x_5 -1.22x_{55} +4.91x_{44}$
x_{33}	1.93023255814	$-0.41x_8 -1.71x_{73} -1.03x_2 -1.28x_5 +2.22x_{55} +0.09x_{44}$
x_{36}	4.62790697674	$-2.34x_8 -0.95x_{73} -3.69x_2 -2.49x_5 +0.68x_{55} +4.50x_{44}$
x_{37}	3.06976744186	$-2.59x_8 +0.71x_{73} -2.97x_2 -0.72x_5 -1.22x_{55} +4.91x_{44}$
x_{38}	3.06976744186	$-2.59x_8 +0.71x_{73} -2.97x_2 -0.72x_5 -1.22x_{55} +4.91x_{44}$
x_{39}	0.53488372093	$+0.45x_8 -0.23x_{73} +0.27x_2 +0.14x_5 +0.31x_{55} +0.29x_{44}$
x_{40}	2.04651162791	$-0.40x_8 -1.86x_{73} -0.98x_2 -0.81x_5 +2.19x_{55} -0.40x_{44}$
x_{41}	4.81395348837	$-2.92x_8 +0.94x_{73} -4.59x_2 -0.74x_5 -1.24x_{55} +6.58x_{44}$
x_{42}	3.90697674419	$-2.71x_8 +0.89x_{73} -3.55x_2 -1.37x_5 -1.21x_{55} +6.12x_{44}$
x_{43}	4.06976744186	$-2.59x_8 +0.71x_{73} -3.97x_2 -0.72x_5 -1.22x_{55} +5.91x_{44}$
x_7	9.06976744186	$+6.91x_8 -6.46x_{73} -2.47x_2 -3.72x_5 +7.61x_{55} -12.43x_{44}$
x_{45}	3.46511627907	$-2.45x_8 +0.56x_{73} -3.27x_2 -1.14x_5 -0.97x_{55} +5.38x_{44}$
x_{46}	2.11627906977	$-0.99x_8 -1.48x_{73} -0.94x_2 -1.53x_5 +1.63x_{55} +0.84x_{44}$
x_{47}	3.97674418605	$-2.30x_8 +0.26x_{73} -3.51x_2 -1.09x_5 -0.76x_{55} +5.36x_{44}$
x_{48}	3.90697674419	$-2.71x_8 +0.89x_{73} -3.55x_2 -1.37x_5 -1.21x_{55} +6.12x_{44}$
x_{49}	2.0	$-2.00x_8 +0.33x_{73} -2.00x_2 -1.00x_5 -0.67x_{55} +3.67x_{44}$
x_{50}	1.93023255814	$-1.41x_8 -0.04x_{73} -1.03x_2 -0.28x_5 -0.11x_{55} +2.43x_{44}$
x_{51}	3.46511627907	$-2.45x_8 +0.56x_{73} -3.27x_2 -1.14x_5 -0.97x_{55} +5.38x_{44}$
x_{52}	3.20930232558	$-1.28x_8 -0.04x_{73} -2.40x_2 -1.16x_5 +0.17x_{55} +3.39x_{44}$
x_{53}	4.72093023256	$-2.13x_8 -1.00x_{73} -3.64x_2 -2.12x_5 +0.72x_{55} +4.04x_{44}$
x_{54}	1.93023255814	$-0.91x_8 +0.46x_{73} -2.53x_2 -0.28x_5 -0.61x_{55} +3.43x_{44}$
x_{22}	0.976744186046	$-0.30x_8 -0.07x_{73} -0.51x_2 -0.09x_5 +0.91x_{55} -0.30x_{44}$
x_{56}	0.906976744186	$+0.29x_8 -0.45x_{73} +0.45x_2 -0.37x_5 +1.46x_{55} -0.54x_{44}$
x_{57}	1.09302325581	$+0.21x_8 +0.95x_{73} -0.95x_2 -0.63x_5 +1.04x_{55} -1.46x_{44}$
x_{58}	1.09302325581	$+0.21x_8 +0.28x_{73} +0.05x_2 -0.63x_5 +1.37x_{55} -0.79x_{44}$
x_{59}	0.581395348837	$+0.06x_8 +1.24x_{73} -0.71x_2 +0.33x_5 +0.83x_{55} -1.44x_{44}$
x_{60}	0.906976744186	$-0.21x_8 +0.05x_{73} -0.05x_2 +0.63x_5 +0.96x_{55} +0.46x_{44}$
x_{61}	0.139534883721	$+0.31x_8 -0.75x_{73} +0.57x_2 -0.44x_5 +1.39x_{55} -0.52x_{44}$
x_{62}	0.372093023256	$+0.34x_8 -0.05x_{73} -0.31x_2 -0.51x_5 +1.32x_{55} -0.50x_{44}$
x_{63}	1.6976744186	$+0.07x_8 +0.43x_{73} -0.65x_2 -0.21x_5 +2.12x_{55} -1.26x_{44}$
x_{64}	1.44186046512	$+0.24x_8 +0.83x_{73} -0.78x_2 -0.23x_5 +1.27x_{55} -1.26x_{44}$
x_{65}	0.441860465116	$+0.24x_8 -0.17x_{73} +0.22x_2 -0.23x_5 +1.27x_{55} -0.26x_{44}$

Forming the dual dictionary:

The Final Dual Dictionary is:

Final primal dictionary obtained:

x_{55}	0.476953907816	$+0.42x_{148}$	$+0.86x_{179}$	$-0.46x_{2}$	$+0.58x_{5}$	$+0.41x_{9}$	$+0.06x_{49}$
x_{44}	0.717434869739	$+1.25x_{148}$	$-0.15x_{179}$	$-0.20x_{2}$	$+0.10x_{5}$	$+0.00x_{9}$	$+0.18x_{49}$
x_{1}	2.37074148297	$-0.18x_{148}$	$+0.08x_{179}$	$+0.56x_{2}$	$-0.38x_{5}$	$+0.08x_{9}$	$-0.10x_{49}$
x_{12}	37.5951903808	$+1.72x_{148}$	$-1.46x_{179}$	$+0.93x_{2}$	$-13.63x_{5}$	$+0.57x_{9}$	$-0.72x_{49}$
x_{3}	1.15430861723	$+0.37x_{148}$	$-0.12x_{179}$	$-0.87x_{2}$	$-0.24x_{5}$	$+0.15x_{9}$	$-0.11x_{49}$
x_{4}	4.94188376754	$+0.16x_{148}$	$-0.18x_{179}$	$-0.33x_{2}$	$-0.66x_{5}$	$-0.01x_{9}$	$+0.06x_{49}$
x_{13}	2.17234468938	$+0.91x_{148}$	$+0.23x_{179}$	$-1.75x_{2}$	$-0.50x_{5}$	$-0.11x_{9}$	$+0.47x_{49}$
x_{6}	0.563126252505	$-0.12x_{148}$	$-0.03x_{179}$	$+0.67x_{2}$	$+0.33x_{5}$	$-0.14x_{9}$	$+0.29x_{49}$
x_{20}	1.60921843687	$+1.03x_{148}$	$+0.26x_{179}$	$-1.42x_{2}$	$+0.17x_{5}$	$+0.04x_{9}$	$+0.18x_{49}$
x_{16}	1.40480961924	$-1.72x_{148}$	$+1.46x_{179}$	$-1.93x_{2}$	$-0.37x_{5}$	$+0.43x_{9}$	$+0.72x_{49}$
x_{17}	2.09018036072	$+1.69x_{148}$	$-0.25x_{179}$	$-0.40x_{2}$	$-0.31x_{5}$	$+0.72x_{9}$	$-0.08x_{49}$
x_{18}	1.74749498998	$-0.52x_{148}$	$+0.10x_{179}$	$-0.67x_{2}$	$-0.34x_{5}$	$-0.42x_{9}$	$+1.82x_{49}$
x_{114}	0.655310621243	$+1.18x_{148}$	$+0.54x_{179}$	$-0.50x_{2}$	$+1.00x_{5}$	$+0.22x_{9}$	$+0.06x_{49}$
x_{19}	2.50100200401	$+0.81x_{148}$	$+0.66x_{179}$	$-1.63x_{2}$	$+0.24x_{5}$	$+0.07x_{9}$	$+0.17x_{49}$
x_{21}	2.29659318637	$-0.95x_{148}$	$+1.86x_{179}$	$-2.15x_{2}$	$-0.30x_{5}$	$+1.46x_{9}$	$-0.28x_{49}$
x_{15}	0.422845691383	$-3.19x_{148}$	$+2.31x_{179}$	$-1.32x_{2}$	$-0.13x_{5}$	$+0.68x_{9}$	$-0.19x_{49}$
x_{23}	1.5130260521	$-1.50x_{148}$	$+2.06x_{179}$	$-1.72x_{2}$	$-0.44x_{5}$	$+1.40x_{9}$	$-0.27x_{49}$
x_{24}	2.23046092184	$+0.75x_{148}$	$+0.41x_{179}$	$-1.42x_{2}$	$+0.16x_{5}$	$+0.90x_{9}$	$+0.41x_{49}$
x_{25}	1.33867735471	$-1.03x_{148}$	$+1.51x_{179}$	$-1.71x_{2}$	$-0.41x_{5}$	$+1.37x_{9}$	$-0.09x_{49}$
x_{26}	0.901803607214	$-1.15x_{148}$	$+1.48x_{179}$	$-1.04x_{2}$	$-0.08x_{5}$	$+1.22x_{9}$	$+0.21x_{49}$
x_{27}	2.29659318637	$-0.95x_{148}$	$+1.86x_{179}$	$-2.15x_{2}$	$-0.30x_{5}$	$+1.46x_{9}$	$-0.28x_{49}$
x_{28}	3.3627254509	$+0.36x_{148}$	$+1.31x_{179}$	$-2.88x_{2}$	$-0.76x_{5}$	$+1.03x_{9}$	$+0.03x_{49}$
x_{29}	2.32665330661	$+1.28x_{148}$	$+0.11x_{179}$	$-1.62x_{2}$	$+0.26x_{5}$	$+0.04x_{9}$	$+0.36x_{49}$
x_{30}	1.28056112224	$-0.87x_{148}$	$+1.33x_{179}$	$-1.03x_{2}$	$-0.07x_{5}$	$+0.36x_{9}$	$-0.02x_{49}$
x_{10}	1.68937875752	$-0.36x_{148}$	$-0.08x_{179}$	$-1.00x_{2}$	$-1.00x_{5}$	$-0.43x_{9}$	$+1.88x_{49}$
x_{31}	3.97995991984	$+2.85x_{148}$	$-0.17x_{179}$	$-2.35x_{2}$	$+0.29x_{5}$	$+0.62x_{9}$	$+0.57x_{49}$
x_{34}	3.04609218437	$+2.15x_{148}$	$-0.22x_{179}$	$-1.58x_{2}$	$-0.67x_{5}$	$-0.32x_{9}$	$+1.38x_{49}$
x_{73}	0.529058116232	$-0.58x_{148}$	$+1.09x_{179}$	$-0.34x_{2}$	$-0.17x_{5}$	$+0.01x_{9}$	$-0.03x_{49}$
x_{33}	1.23847695391	$+1.21x_{148}$	$+0.18x_{179}$	$-0.98x_{2}$	$+0.54x_{5}$	$+0.95x_{9}$	$+0.28x_{49}$
x_{36}	2.42885771543	$+1.66x_{148}$	$-0.24x_{179}$	$-1.61x_{2}$	$-0.22x_{5}$	$+0.59x_{9}$	$+1.33x_{49}$
x_{37}	0.563126252505	$-0.12x_{148}$	$-0.03x_{179}$	$-0.33x_{2}$	$+0.33x_{5}$	$-0.14x_{9}$	$+1.29x_{49}$
x_{38}	0.563126252505	$-0.12x_{148}$	$-0.03x_{179}$	$-0.33x_{2}$	$+0.33x_{5}$	$-0.14x_{9}$	$+1.29x_{49}$
x_{39}	1.78356713427	$+1.56x_{148}$	$-0.20x_{179}$	$-0.43x_{2}$	$+0.14x_{5}$	$+0.07x_{9}$	$-0.01x_{49}$
x_{40}	0.933867735471	$+0.70x_{148}$	$+0.05x_{179}$	$-0.77x_{2}$	$+0.96x_{5}$	$+0.94x_{9}$	$+0.19x_{49}$
x_{41}	2.88977955912	$+1.16x_{148}$	$+0.09x_{179}$	$-1.95x_{2}$	$+0.60x_{5}$	$-0.11x_{9}$	$+1.65x_{49}$
x_{42}	2.11422845691	$+1.07x_{148}$	$+0.05x_{179}$	$-1.08x_{2}$	$-0.16x_{5}$	$-0.12x_{9}$	$+1.53x_{49}$
x_{43}	2.28056112224	$+1.13x_{148}$	$-0.17x_{179}$	$-1.53x_{2}$	$+0.43x_{5}$	$-0.14x_{9}$	$+1.48x_{49}$
x_{7}	15.871743487	$+5.63x_{148}$	$-1.26x_{179}$	$-10.07x_{2}$	$-3.14x_{5}$	$+2.15x_{9}$	$-2.93x_{49}$
x_{45}	1.65130260521	$+0.95x_{148}$	$-0.09x_{179}$	$-0.97x_{2}$	$+0.06x_{5}$	$-0.06x_{9}$	$+1.37x_{49}$
x_{46}	0.496993987976	$+0.58x_{148}$	$+0.03x_{179}$	$-0.10x_{2}$	$+0.29x_{5}$	$+0.79x_{9}$	$+0.49x_{49}$
x_{47}	2.43486973948	$+1.51x_{148}$	$-0.29x_{179}$	$-1.40x_{2}$	$+0.19x_{5}$	$+0.01x_{9}$	$+1.36x_{49}$
x_{48}	2.11422845691	$+1.07x_{148}$	$+0.05x_{179}$	$-1.08x_{2}$	$-0.16x_{5}$	$-0.12x_{9}$	$+1.53x_{49}$
x_{14}	1.12625250501	$-0.24x_{148}$	$-0.05x_{179}$	$-0.67x_{2}$	$-0.33x_{5}$	$-0.29x_{9}$	$+1.59x_{49}$
x_{50}	0.436873747495	$+0.12x_{148}$	$+0.03x_{179}$	$+0.33x_{2}$	$+0.67x_{5}$	$+0.14x_{9}$	$+0.71x_{49}$
x_{51}	1.65130260521	$+0.95x_{148}$	$-0.09x_{179}$	$-0.97x_{2}$	$+0.06x_{5}$	$-0.06x_{9}$	$+1.37x_{49}$
x_{52}	2.82965931864	$+1.71x_{148}$	$+0.09x_{179}$	$-1.52x_{2}$	$-0.03x_{5}$	$+0.25x_{9}$	$+0.87x_{49}$
x_{53}	2.65330661323	$+1.57x_{148}$	$-0.28x_{179}$	$-1.74x_{2}$	$+0.03x_{5}$	$+0.58x_{9}$	$+1.22x_{49}$
x_{54}	2.30260521042	$+1.90x_{148}$	$-0.19x_{179}$	$-1.94x_{2}$	$+0.11x_{5}$	$-0.12x_{9}$	$+0.75x_{49}$
x_{22}	0.476953907816	$-0.58x_{148}$	$+0.86x_{179}$	$-0.46x_{2}$	$+0.58x_{5}$	$+0.41x_{9}$	$+0.06x_{49}$
x_{56}	1.63126252505	$+0.80x_{148}$	$+0.74x_{179}$	$-0.33x_{2}$	$+0.35x_{5}$	$+0.56x_{9}$	$-0.05x_{49}$
x_{57}	1.5130260521	$-1.50x_{148}$	$+2.06x_{179}$	$-1.72x_{2}$	$-0.44x_{5}$	$+0.40x_{9}$	$-0.27x_{49}$
x_{58}	1.79759519038	$-0.14x_{148}$	$+1.52x_{179}$	$-0.78x_{2}$	$-0.07x_{5}$	$+0.53x_{9}$	$-0.11x_{49}$
x_{59}	0.729458917836	$-2.06x_{148}$	$+2.25x_{179}$	$-1.29x_{2}$	$+0.42x_{5}$	$+0.33x_{9}$	$-0.26x_{49}$
x_{60}	1.25250501002	$+0.52x_{148}$	$+0.90x_{179}$	$-0.33x_{2}$	$+1.34x_{5}$	$+0.42x_{9}$	$+0.18x_{49}$
x_{108}	1.50901803607	$+2.27x_{148}$	$+0.42x_{179}$	$-1.19x_{2}$	$+0.62x_{5}$	$+0.12x_{9}$	$+0.04x_{49}$
x_{62}	1.37675350701	$+0.66x_{148}$	$+1.03x_{179}$	$-1.23x_{2}$	$+0.04x_{5}$	$+0.50x_{9}$	$-0.08x_{49}$
x_{63}	2.18637274549	$-0.78x_{148}$	$+2.45x_{179}$	$-1.60x_{2}$	$+0.80x_{5}$	$+0.86x_{9}$	$-0.13x_{49}$
x_{64}	2.13026052104	$-1.01x_{148}$	$+2.08x_{179}$	$-1.69x_{2}$	$+0.11x_{5}$	$+0.49x_{9}$	$-0.23x_{49}$
x_{65}	1.31863727455	$+0.82x_{148}$	$+0.84x_{179}$	$-0.56x_{2}$	$+0.38x_{5}$	$+0.49x_{9}$	$-0.01x_{49}$

After cutting plane is added

x_{55}	0.476953907816	$+0.42x_{148}$	$+0.86x_{179}$	$-0.46x_2$	$+0.58x_5$	$+0.41x_9$	$+0.06x_{49}$
x_{44}	0.717434869739	$+1.25x_{148}$	$-0.15x_{179}$	$-0.20x_2$	$+0.10x_5$	$+0.00x_9$	$+0.18x_{49}$
x_1	2.37074148297	$-0.18x_{148}$	$+0.08x_{179}$	$+0.56x_2$	$-0.38x_5$	$+0.08x_9$	$-0.10x_{49}$
x_{12}	37.5951903808	$+1.72x_{148}$	$-1.46x_{179}$	$+0.93x_2$	$-13.63x_5$	$+0.57x_9$	$-0.72x_{49}$
x_3	1.15430861723	$+0.37x_{148}$	$-0.12x_{179}$	$-0.87x_2$	$-0.24x_5$	$+0.15x_9$	$-0.11x_{49}$
x_4	4.94188376754	$+0.16x_{148}$	$-0.18x_{179}$	$-0.33x_2$	$-0.66x_5$	$-0.01x_9$	$+0.06x_{49}$
x_{13}	2.17234468938	$+0.91x_{148}$	$+0.23x_{179}$	$-1.75x_2$	$-0.50x_5$	$-0.11x_9$	$+0.47x_{49}$
x_6	0.563126252505	$-0.12x_{148}$	$-0.03x_{179}$	$+0.67x_2$	$+0.33x_5$	$-0.14x_9$	$+0.29x_{49}$
x_{20}	1.60921843687	$+1.03x_{148}$	$+0.26x_{179}$	$-1.42x_2$	$+0.17x_5$	$+0.04x_9$	$+0.18x_{49}$
x_{16}	1.40480961924	$-1.72x_{148}$	$+1.46x_{179}$	$-1.93x_2$	$-0.37x_5$	$+0.43x_9$	$+0.72x_{49}$
x_{17}	2.09018036072	$+1.69x_{148}$	$-0.25x_{179}$	$-0.40x_2$	$-0.31x_5$	$+0.72x_9$	$-0.08x_{49}$
x_{18}	1.74749498998	$-0.52x_{148}$	$+0.10x_{179}$	$-0.67x_2$	$-0.34x_5$	$-0.42x_9$	$+1.82x_{49}$
x_{114}	0.655310621243	$+1.18x_{148}$	$+0.54x_{179}$	$-0.50x_2$	$+1.00x_5$	$+0.22x_9$	$+0.06x_{49}$
x_{19}	2.50100200401	$+0.81x_{148}$	$+0.66x_{179}$	$-1.63x_2$	$+0.24x_5$	$+0.07x_9$	$+0.17x_{49}$
x_{21}	2.29659318637	$-0.95x_{148}$	$+1.86x_{179}$	$-2.15x_2$	$-0.30x_5$	$+1.46x_9$	$-0.28x_{49}$
x_{15}	0.422845691383	$-3.19x_{148}$	$+2.31x_{179}$	$-1.32x_2$	$-0.13x_5$	$+0.68x_9$	$-0.19x_{49}$
x_{23}	1.5130260521	$-1.50x_{148}$	$+2.06x_{179}$	$-1.72x_2$	$-0.44x_5$	$+1.40x_9$	$-0.27x_{49}$
x_{24}	2.23046092184	$+0.75x_{148}$	$+0.41x_{179}$	$-1.42x_2$	$+0.16x_5$	$+0.90x_9$	$+0.41x_{49}$
x_{25}	1.33867735471	$-1.03x_{148}$	$+1.51x_{179}$	$-1.71x_2$	$-0.41x_5$	$+1.37x_9$	$-0.09x_{49}$
x_{26}	0.901803607214	$-1.15x_{148}$	$+1.48x_{179}$	$-1.04x_2$	$-0.08x_5$	$+1.22x_9$	$+0.21x_{49}$
x_{27}	2.29659318637	$-0.95x_{148}$	$+1.86x_{179}$	$-2.15x_2$	$-0.30x_5$	$+1.46x_9$	$-0.28x_{49}$
x_{28}	3.3627254509	$+0.36x_{148}$	$+1.31x_{179}$	$-2.88x_2$	$-0.76x_5$	$+1.03x_9$	$+0.03x_{49}$
x_{29}	2.32665330661	$+1.28x_{148}$	$+0.11x_{179}$	$-1.62x_2$	$+0.26x_5$	$+0.04x_9$	$+0.36x_{49}$
x_{30}	1.28056112224	$-0.87x_{148}$	$+1.33x_{179}$	$-1.03x_2$	$-0.07x_5$	$+0.36x_9$	$-0.02x_{49}$
x_{10}	1.68937875752	$-0.36x_{148}$	$-0.08x_{179}$	$-1.00x_2$	$-1.00x_5$	$-0.43x_9$	$+1.88x_{49}$
x_{31}	3.97995991984	$+2.85x_{148}$	$-0.17x_{179}$	$-2.35x_2$	$+0.29x_5$	$+0.62x_9$	$+0.57x_{49}$
x_{34}	3.04609218437	$+2.15x_{148}$	$-0.22x_{179}$	$-1.58x_2$	$-0.67x_5$	$-0.32x_9$	$+1.38x_{49}$
x_{73}	0.529058116232	$-0.58x_{148}$	$+1.09x_{179}$	$-0.34x_2$	$-0.17x_5$	$+0.01x_9$	$-0.03x_{49}$
x_{33}	1.23847695391	$+1.21x_{148}$	$+0.18x_{179}$	$-0.98x_2$	$+0.54x_5$	$+0.95x_9$	$+0.28x_{49}$
x_{36}	2.42885771543	$+1.66x_{148}$	$-0.24x_{179}$	$-1.61x_2$	$-0.22x_5$	$+0.59x_9$	$+1.33x_{49}$
x_{37}	0.563126252505	$-0.12x_{148}$	$-0.03x_{179}$	$-0.33x_2$	$+0.33x_5$	$-0.14x_9$	$+1.29x_{49}$
x_{38}	0.563126252505	$-0.12x_{148}$	$-0.03x_{179}$	$-0.33x_2$	$+0.33x_5$	$-0.14x_9$	$+1.29x_{49}$
x_{39}	1.78356713427	$+1.56x_{148}$	$-0.20x_{179}$	$-0.43x_2$	$+0.14x_5$	$+0.07x_9$	$-0.01x_{49}$
x_{40}	0.933867735471	$+0.70x_{148}$	$+0.05x_{179}$	$-0.77x_2$	$+0.96x_5$	$+0.94x_9$	$+0.19x_{49}$
x_{41}	2.88977955912	$+1.16x_{148}$	$+0.09x_{179}$	$-1.95x_2$	$+0.60x_5$	$-0.11x_9$	$+1.65x_{49}$
x_{42}	2.11422845691	$+1.07x_{148}$	$+0.05x_{179}$	$-1.08x_2$	$-0.16x_5$	$-0.12x_9$	$+1.53x_{49}$
x_{43}	2.28056112224	$+1.13x_{148}$	$-0.17x_{179}$	$-1.53x_2$	$+0.43x_5$	$-0.14x_9$	$+1.48x_{49}$
x_7	15.871743487	$+5.63x_{148}$	$-1.26x_{179}$	$-10.07x_2$	$-3.14x_5$	$+2.15x_9$	$-2.93x_{49}$
x_{45}	1.65130260521	$+0.95x_{148}$	$-0.09x_{179}$	$-0.97x_2$	$+0.06x_5$	$-0.06x_9$	$+1.37x_{49}$
x_{46}	0.496993987976	$+0.58x_{148}$	$+0.03x_{179}$	$-0.10x_2$	$+0.29x_5$	$+0.79x_9$	$+0.49x_{49}$
x_{47}	2.43486973948	$+1.51x_{148}$	$-0.29x_{179}$	$-1.40x_2$	$+0.19x_5$	$+0.01x_9$	$+1.36x_{49}$
x_{48}	2.11422845691	$+1.07x_{148}$	$+0.05x_{179}$	$-1.08x_2$	$-0.16x_5$	$-0.12x_9$	$+1.53x_{49}$
x_{14}	1.12625250501	$-0.24x_{148}$	$-0.05x_{179}$	$-0.67x_2$	$-0.33x_5$	$-0.29x_9$	$+1.59x_{49}$
x_{50}	0.436873747495	$+0.12x_{148}$	$+0.03x_{179}$	$+0.33x_2$	$+0.67x_5$	$+0.14x_9$	$+0.71x_{49}$
x_{51}	1.65130260521	$+0.95x_{148}$	$-0.09x_{179}$	$-0.97x_2$	$+0.06x_5$	$-0.06x_9$	$+1.37x_{49}$
x_{52}	2.82965931864	$+1.71x_{148}$	$+0.09x_{179}$	$-1.52x_2$	$-0.03x_5$	$+0.25x_9$	$+0.87x_{49}$
x_{53}	2.65330661323	$+1.57x_{148}$	$+0.28x_{179}$	$-1.74x_2$	$+0.03x_5$	$+0.58x_9$	$+1.22x_{49}$
x_{54}	2.30260521042	$+1.90x_{148}$	$-0.19x_{179}$	$-1.94x_2$	$+0.11x_5$	$-0.12x_9$	$+0.75x_{49}$
x_{22}	0.476953907816	$-0.58x_{148}$	$+0.86x_{179}$	$-0.46x_2$	$+0.58x_5$	$+0.41x_9$	$+0.06x_{49}$
x_{56}	1.63126252505	$+0.80x_{148}$	$+0.74x_{179}$	$-0.33x_2$	$+0.35x_5$	$+0.56x_9$	$-0.05x_{49}$
x_{57}	1.5130260521	$-1.50x_{148}$	$+2.06x_{179}$	$-1.72x_2$	$-0.44x_5$	$+0.40x_9$	$-0.27x_{49}$
x_{58}	1.79759519038	$-0.14x_{148}$	$+1.52x_{179}$	$-0.78x_2$	$-0.07x_5$	$+0.53x_9$	$-0.11x_{49}$
x_{59}	0.729458917836	$-2.06x_{148}$	$+2.25x_{179}$	$-1.29x_2$	$+0.42x_5$	$+0.33x_9$	$-0.26x_{49}$
x_{60}	1.25250501002	$+0.52x_{148}$	$+0.90x_{179}$	$-0.33x_2$	$+1.34x_5$	$+0.42x_9$	$+0.18x_{49}$
x_{108}	1.50901803607	$+2.27x_{148}$	$+0.42x_{179}$	$-1.19x_2$	$+0.62x_5$	$+0.12x_9$	$+0.04x_{49}$
x_{62}	1.37675350701	$+0.66x_{148}$	$+1.03x_{179}$	$-1.23x_2$	$+0.04x_5$	$+0.50x_9$	$-0.08x_{49}$
x_{63}	2.18637274549	$-0.78x_{148}$	$+2.45x_{179}$	$-1.60x_2$	$+0.80x_5$	$+0.86x_9$	$-0.13x_{49}$
x_{64}	2.13026052104	$-1.01x_{148}$	$+2.08x_{179}$	$-1.69x_2$	$+0.11x_5$	$+0.49x_9$	$-0.23x_{49}$
x_{65}	1.31863727455	$+0.82x_{148}$	$+0.84x_{179}$	$-0.56x_2$	$+0.38x_5$	$+0.49x_9$	$-0.01x_{49}$

Forming the dual dictionary:

The Final Dual Dictionary is:

Final primal dictionary obtained:

x_{55}	3.5	$-6.88x_{356} +11.63x_{322} -6.88x_{2} -5.00x_{5} +2.50x_{219} -1.63x_{202}$
x_{44}	1.0	$+4.13x_{356} -4.38x_{322} +1.13x_{2} +1.50x_{5} -1.00x_{219} +0.88x_{202}$
x_{1}	2.5	$-1.13x_{356} +1.38x_{322} -0.13x_{2} -1.00x_{5} +0.50x_{219} -0.38x_{202}$
x_{12}	34.0	$+16.88x_{356} -25.63x_{322} +10.88x_{2} -4.50x_{5} -2.00x_{219} +2.13x_{202}$
x_{3}	1.0	$+1.88x_{356} -2.63x_{322} -0.12x_{2} +0.50x_{5} -0.00x_{219} +0.13x_{202}$
x_{4}	4.5	$+2.00x_{356} -3.00x_{322} +1.00x_{2} +0.50x_{5} -0.50x_{219} +0.50x_{202}$
x_{13}	3.5	$-0.00x_{356} +2.00x_{322} -3.00x_{2} -1.50x_{5} -0.50x_{219} +0.50x_{202}$
x_{229}	2.5	$-6.38x_{356} +12.13x_{322} -5.38x_{2} -5.00x_{5} +1.50x_{219} -1.13x_{202}$
x_{20}	3.0	$-0.00x_{356} +2.00x_{322} -3.00x_{2} -1.00x_{5} +0.00x_{219} -0.00x_{202}$
x_{16}	5.49999999999	$-17.13x_{356} +24.38x_{322} -13.13x_{2} -11.00x_{5} +4.50x_{219} -2.38x_{202}$
x_{17}	2.5	$+5.88x_{356} -7.63x_{322} +0.88x_{2} +1.00x_{5} +0.50x_{219} +0.63x_{202}$
x_{18}	2.5	$-2.00x_{356} +3.00x_{322} -1.00x_{2} -1.50x_{5} -1.50x_{219} +2.50x_{202}$
x_{114}	3.0	$-2.25x_{356} +5.75x_{322} -4.25x_{2} -2.00x_{5} +1.00x_{219} -0.75x_{202}$
x_{19}	5.0	$-4.13x_{356} +8.38x_{322} -6.13x_{2} -3.50x_{5} +1.00x_{219} -0.88x_{202}$
x_{21}	7.99999999999	$-19.25x_{356} +27.75x_{322} -17.25x_{2} -14.00x_{5} +8.00x_{219} -4.75x_{202}$
x_{15}	5.99999999999	$-28.13x_{356} +39.38x_{322} -19.13x_{2} -16.50x_{5} +8.00x_{219} -5.88x_{202}$
x_{23}	7.49999999999	$-22.25x_{356} +31.75x_{322} -18.25x_{2} -15.50x_{5} +8.50x_{219} -5.25x_{202}$
x_{24}	4.5	$-2.25x_{356} +3.75x_{322} -5.25x_{2} -3.50x_{5} +2.50x_{219} -0.25x_{202}$
x_{25}	5.99999999999	$-16.25x_{356} +22.75x_{322} -14.25x_{2} -12.00x_{5} +7.00x_{219} -3.75x_{202}$
x_{26}	5.49999999999	$-16.25x_{356} +22.75x_{322} -13.25x_{2} -11.50x_{5} +6.50x_{219} -3.25x_{202}$
x_{27}	7.99999999999	$-19.25x_{356} +27.75x_{322} -17.25x_{2} -14.00x_{5} +8.00x_{219} -4.75x_{202}$
x_{28}	8.0	$-11.25x_{356} +17.75x_{322} -13.25x_{2} -10.00x_{5} +5.00x_{219} -2.75x_{202}$
x_{29}	3.5	$+1.87x_{356} -0.62x_{322} -2.13x_{2} -0.00x_{5} -0.50x_{219} +0.63x_{202}$
x_{30}	5.0	$-14.00x_{356} +21.00x_{322} -11.00x_{2} -9.00x_{5} +4.00x_{219} -3.00x_{202}$
x_{6}	0.5	$+0.00x_{356} +0.00x_{322} +1.00x_{2} +0.50x_{5} -0.50x_{219} +0.50x_{202}$
x_{31}	5.5	$+7.75x_{356} -8.25x_{322} -1.25x_{2} +1.50x_{5} -0.50x_{219} +1.75x_{202}$
x_{34}	4.0	$+6.88x_{356} -6.63x_{322} +0.88x_{2} +1.50x_{5} -3.00x_{219} +3.13x_{202}$
x_{73}	3.5	$-11.13x_{356} +17.38x_{322} -8.13x_{2} -7.00x_{5} +2.50x_{219} -2.38x_{202}$
x_{33}	3.0	$+0.88x_{356} -0.63x_{322} -3.12x_{2} -1.50x_{5} +2.00x_{219} +0.13x_{202}$
x_{36}	3.5	$+5.75x_{356} -7.25x_{322} -0.25x_{2} +0.50x_{5} -0.50x_{219} +2.75x_{202}$
x_{37}	1.0	$+0.00x_{356} -0.00x_{322} +0.00x_{2} +0.00x_{5} -1.00x_{219} +2.00x_{202}$
x_{38}	1.0	$+0.00x_{356} -0.00x_{322} +0.00x_{2} +0.00x_{5} -1.00x_{219} +2.00x_{202}$
x_{39}	2.0	$+5.25x_{356} -5.75x_{322} +1.25x_{2} +2.00x_{5} -1.00x_{219} +0.75x_{202}$
x_{40}	2.0	$+0.88x_{356} -1.63x_{322} -2.12x_{2} -0.50x_{5} +2.00x_{219} +0.13x_{202}$
x_{41}	4.5	$+1.87x_{356} -0.62x_{322} -2.13x_{2} -0.00x_{5} -1.50x_{219} +2.63x_{202}$
x_{42}	3.5	$+2.00x_{356} -1.00x_{322} -1.00x_{2} -0.50x_{5} -1.50x_{219} +2.50x_{202}$
x_{43}	3.0	$+4.13x_{356} -4.38x_{322} +0.13x_{2} +1.50x_{5} -2.00x_{219} +2.88x_{202}$
x_{7}	14.5	$+23.50x_{356} -31.50x_{322} -2.50x_{2} +5.50x_{5} +1.50x_{219} -1.00x_{202}$
x_{45}	2.5	$+3.00x_{356} -3.00x_{322} +0.00x_{2} +0.50x_{5} -1.50x_{219} +2.50x_{202}$
x_{46}	1.5	$+0.88x_{356} -1.63x_{322} -1.12x_{2} -1.00x_{5} +1.50x_{219} +0.63x_{202}$
x_{47}	3.0	$+6.00x_{356} -7.00x_{322} +1.00x_{2} +2.00x_{5} -2.00x_{219} +3.00x_{202}$
x_{48}	3.5	$+2.00x_{356} -1.00x_{322} -1.00x_{2} -0.50x_{5} -1.50x_{219} +2.50x_{202}$
x_{10}	2.0	$+0.00x_{356} -0.00x_{322} +0.00x_{2} -1.00x_{5} -2.00x_{219} +3.00x_{202}$
x_{50}	1.0	$+0.00x_{356} -0.00x_{322} +0.00x_{2} +0.00x_{5} -0.00x_{219} +1.00x_{202}$
x_{51}	2.5	$+3.00x_{356} -3.00x_{322} +0.00x_{2} +0.50x_{5} -1.50x_{219} +2.50x_{202}$
x_{52}	4.5	$+3.00x_{356} -2.00x_{322} -2.00x_{2} -0.50x_{5} -0.50x_{219} +1.50x_{202}$
x_{53}	3.5	$+5.88x_{356} -7.63x_{322} -0.12x_{2} +1.00x_{5} -0.50x_{219} +2.63x_{202}$
x_{54}	3.0	$+6.00x_{356} -6.00x_{322} +0.00x_{2} +2.00x_{5} -2.00x_{219} +2.00x_{202}$
x_{22}	3.0	$-9.13x_{356} +13.38x_{322} -7.13x_{2} -5.50x_{5} +3.00x_{219} -1.88x_{202}$
x_{56}	4.5	$-5.00x_{356} +9.00x_{322} -6.00x_{2} -4.50x_{5} +2.50x_{219} -1.50x_{202}$
x_{57}	6.99999999999	$-22.00x_{356} +33.00x_{322} -17.00x_{2} -14.00x_{5} +6.00x_{219} -5.00x_{202}$
x_{58}	6.49999999999	$-14.13x_{356} +22.38x_{322} -12.13x_{2} -10.00x_{5} +4.50x_{219} -3.38x_{202}$
x_{59}	6.49999999999	$-25.00x_{356} +37.00x_{322} -18.00x_{2} -14.50x_{5} +6.50x_{219} -5.50x_{202}$
x_{60}	4.5	$-7.00x_{356} +12.00x_{322} -7.00x_{2} -4.50x_{5} +2.50x_{219} -1.50x_{202}$
x_{108}	4.0	$+1.25x_{356} +2.25x_{322} -3.75x_{2} -1.00x_{5} +0.00x_{219} -0.25x_{202}$
x_{62}	5.0	$-7.88x_{356} +13.63x_{322} -8.88x_{2} -6.50x_{5} +3.00x_{219} -2.13x_{202}$
x_{63}	9.49999999999	$-24.00x_{356} +37.00x_{322} -20.00x_{2} -15.50x_{5} +7.50x_{219} -5.50x_{202}$
x_{64}	7.99999999999	$-21.13x_{356} +32.38x_{322} -17.13x_{2} -13.50x_{5} +6.00x_{219} -4.88x_{202}$
x_{65}	4.5	$-5.88x_{356} +10.63x_{322} -6.88x_{2} -5.00x_{5} +2.50x_{219} -1.63x_{202}$

After cutting plane is added

x_{55}	3.5	$-6.88x_{356}$ $+11.63x_{322}$ $-6.88x_{2}$ $-5.00x_{5}$ $+2.50x_{219}$ $-1.63x_{202}$
x_{44}	1.0	$+4.13x_{356}$ $-4.38x_{322}$ $+1.13x_{2}$ $+1.50x_{5}$ $-1.00x_{219}$ $+0.88x_{202}$
x_{1}	2.5	$-1.13x_{356}$ $+1.38x_{322}$ $-0.13x_{2}$ $-1.00x_{5}$ $+0.50x_{219}$ $-0.38x_{202}$
x_{12}	34.0	$+16.88x_{356}$ $-25.63x_{322}$ $+10.88x_{2}$ $-4.50x_{5}$ $-2.00x_{219}$ $+2.13x_{202}$
x_{3}	1.0	$+1.88x_{356}$ $-2.63x_{322}$ $-0.12x_{2}$ $+0.50x_{5}$ $-0.00x_{219}$ $+0.13x_{202}$
x_{4}	4.5	$+2.00x_{356}$ $-3.00x_{322}$ $+1.00x_{2}$ $+0.50x_{5}$ $-0.50x_{219}$ $+0.50x_{202}$
x_{13}	3.5	$-0.00x_{356}$ $+2.00x_{322}$ $-3.00x_{2}$ $-1.50x_{5}$ $-0.50x_{219}$ $+0.50x_{202}$
x_{229}	2.5	$-6.38x_{356}$ $+12.13x_{322}$ $-5.38x_{2}$ $-5.00x_{5}$ $+1.50x_{219}$ $-1.13x_{202}$
x_{20}	3.0	$-0.00x_{356}$ $+2.00x_{322}$ $-3.00x_{2}$ $-1.00x_{5}$ $+0.00x_{219}$ $-0.00x_{202}$
x_{16}	5.49999999999	$-17.13x_{356}$ $+24.38x_{322}$ $-13.13x_{2}$ $-11.00x_{5}$ $+4.50x_{219}$ $-2.38x_{202}$
x_{17}	2.5	$+5.88x_{356}$ $-7.63x_{322}$ $+0.88x_{2}$ $+1.00x_{5}$ $+0.50x_{219}$ $+0.63x_{202}$
x_{18}	2.5	$-2.00x_{356}$ $+3.00x_{322}$ $-1.00x_{2}$ $-1.50x_{5}$ $-1.50x_{219}$ $+2.50x_{202}$
x_{114}	3.0	$-2.25x_{356}$ $+5.75x_{322}$ $-4.25x_{2}$ $-2.00x_{5}$ $+1.00x_{219}$ $-0.75x_{202}$
x_{19}	5.0	$-4.13x_{356}$ $+8.38x_{322}$ $-6.13x_{2}$ $-3.50x_{5}$ $+1.00x_{219}$ $-0.88x_{202}$
x_{21}	7.99999999999	$-19.25x_{356}$ $+27.75x_{322}$ $-17.25x_{2}$ $-14.00x_{5}$ $+8.00x_{219}$ $-4.75x_{202}$
x_{15}	5.99999999999	$-28.13x_{356}$ $+39.38x_{322}$ $-19.13x_{2}$ $-16.50x_{5}$ $+8.00x_{219}$ $-5.88x_{202}$
x_{23}	7.49999999999	$-22.25x_{356}$ $+31.75x_{322}$ $-18.25x_{2}$ $-15.50x_{5}$ $+8.50x_{219}$ $-5.25x_{202}$
x_{24}	4.5	$-2.25x_{356}$ $+3.75x_{322}$ $-5.25x_{2}$ $-3.50x_{5}$ $+2.50x_{219}$ $-0.25x_{202}$
x_{25}	5.99999999999	$-16.25x_{356}$ $+22.75x_{322}$ $-14.25x_{2}$ $-12.00x_{5}$ $+7.00x_{219}$ $-3.75x_{202}$
x_{26}	5.49999999999	$-16.25x_{356}$ $+22.75x_{322}$ $-13.25x_{2}$ $-11.50x_{5}$ $+6.50x_{219}$ $-3.25x_{202}$
x_{27}	7.99999999999	$-19.25x_{356}$ $+27.75x_{322}$ $-17.25x_{2}$ $-14.00x_{5}$ $+8.00x_{219}$ $-4.75x_{202}$
x_{28}	8.0	$-11.25x_{356}$ $+17.75x_{322}$ $-13.25x_{2}$ $-10.00x_{5}$ $+5.00x_{219}$ $-2.75x_{202}$
x_{29}	3.5	$+1.87x_{356}$ $-0.62x_{322}$ $-2.13x_{2}$ $-0.00x_{5}$ $-0.50x_{219}$ $+0.63x_{202}$
x_{30}	5.0	$-14.00x_{356}$ $+21.00x_{322}$ $-11.00x_{2}$ $-9.00x_{5}$ $+4.00x_{219}$ $-3.00x_{202}$
x_{6}	0.5	$+0.00x_{356}$ $+0.00x_{322}$ $+1.00x_{2}$ $+0.50x_{5}$ $-0.50x_{219}$ $+0.50x_{202}$
x_{31}	5.5	$+7.75x_{356}$ $-8.25x_{322}$ $-1.25x_{2}$ $+1.50x_{5}$ $-0.50x_{219}$ $+1.75x_{202}$
x_{34}	4.0	$+6.88x_{356}$ $-6.63x_{322}$ $+0.88x_{2}$ $+1.50x_{5}$ $-3.00x_{219}$ $+3.13x_{202}$
x_{73}	3.5	$-11.13x_{356}$ $+17.38x_{322}$ $-8.13x_{2}$ $-7.00x_{5}$ $+2.50x_{219}$ $-2.38x_{202}$
x_{33}	3.0	$+0.88x_{356}$ $-0.63x_{322}$ $-3.12x_{2}$ $-1.50x_{5}$ $+2.00x_{219}$ $+0.13x_{202}$
x_{36}	3.5	$+5.75x_{356}$ $-7.25x_{322}$ $-0.25x_{2}$ $+0.50x_{5}$ $-0.50x_{219}$ $+2.75x_{202}$
x_{37}	1.0	$+0.00x_{356}$ $-0.00x_{322}$ $+0.00x_{2}$ $+0.00x_{5}$ $-1.00x_{219}$ $+2.00x_{202}$
x_{38}	1.0	$+0.00x_{356}$ $-0.00x_{322}$ $+0.00x_{2}$ $+0.00x_{5}$ $-1.00x_{219}$ $+2.00x_{202}$
x_{39}	2.0	$+5.25x_{356}$ $-5.75x_{322}$ $+1.25x_{2}$ $+2.00x_{5}$ $-1.00x_{219}$ $+0.75x_{202}$
x_{40}	2.0	$+0.88x_{356}$ $-1.63x_{322}$ $-2.12x_{2}$ $-0.50x_{5}$ $+2.00x_{219}$ $+0.13x_{202}$
x_{41}	4.5	$+1.87x_{356}$ $-0.62x_{322}$ $-2.13x_{2}$ $-0.00x_{5}$ $-1.50x_{219}$ $+2.63x_{202}$
x_{42}	3.5	$+2.00x_{356}$ $-1.00x_{322}$ $-1.00x_{2}$ $-0.50x_{5}$ $-1.50x_{219}$ $+2.50x_{202}$
x_{43}	3.0	$+4.13x_{356}$ $-4.38x_{322}$ $+0.13x_{2}$ $+1.50x_{5}$ $-2.00x_{219}$ $+2.88x_{202}$
x_{7}	14.5	$+23.50x_{356}$ $-31.50x_{322}$ $-2.50x_{2}$ $+5.50x_{5}$ $+1.50x_{219}$ $-1.00x_{202}$
x_{45}	2.5	$+3.00x_{356}$ $-3.00x_{322}$ $+0.00x_{2}$ $+0.50x_{5}$ $-1.50x_{219}$ $+2.50x_{202}$
x_{46}	1.5	$+0.88x_{356}$ $-1.63x_{322}$ $-1.12x_{2}$ $-1.00x_{5}$ $+1.50x_{219}$ $+0.63x_{202}$
x_{47}	3.0	$+6.00x_{356}$ $-7.00x_{322}$ $+1.00x_{2}$ $+2.00x_{5}$ $-2.00x_{219}$ $+3.00x_{202}$
x_{48}	3.5	$+2.00x_{356}$ $-1.00x_{322}$ $-1.00x_{2}$ $-0.50x_{5}$ $-1.50x_{219}$ $+2.50x_{202}$
x_{10}	2.0	$+0.00x_{356}$ $-0.00x_{322}$ $+0.00x_{2}$ $-1.00x_{5}$ $-2.00x_{219}$ $+3.00x_{202}$
x_{50}	1.0	$+0.00x_{356}$ $-0.00x_{322}$ $+0.00x_{2}$ $+0.00x_{5}$ $-0.00x_{219}$ $+1.00x_{202}$
x_{51}	2.5	$+3.00x_{356}$ $-3.00x_{322}$ $+0.00x_{2}$ $+0.50x_{5}$ $-1.50x_{219}$ $+2.50x_{202}$
x_{52}	4.5	$+3.00x_{356}$ $-2.00x_{322}$ $-2.00x_{2}$ $-0.50x_{5}$ $-0.50x_{219}$ $+1.50x_{202}$
x_{53}	3.5	$+5.88x_{356}$ $-7.63x_{322}$ $-0.12x_{2}$ $+1.00x_{5}$ $-0.50x_{219}$ $+2.63x_{202}$
x_{54}	3.0	$+6.00x_{356}$ $-6.00x_{322}$ $+0.00x_{2}$ $+2.00x_{5}$ $-2.00x_{219}$ $+2.00x_{202}$
x_{22}	3.0	$-9.13x_{356}$ $+13.38x_{322}$ $-7.13x_{2}$ $-5.50x_{5}$ $+3.00x_{219}$ $-1.88x_{202}$
x_{56}	4.5	$-5.00x_{356}$ $+9.00x_{322}$ $-6.00x_{2}$ $-4.50x_{5}$ $+2.50x_{219}$ $-1.50x_{202}$
x_{57}	6.99999999999	$-22.00x_{356}$ $+33.00x_{322}$ $-17.00x_{2}$ $-14.00x_{5}$ $+6.00x_{219}$ $-5.00x_{202}$
x_{58}	6.49999999999	$-14.13x_{356}$ $+22.38x_{322}$ $-12.13x_{2}$ $-10.00x_{5}$ $+4.50x_{219}$ $-3.38x_{202}$
x_{59}	6.49999999999	$-25.00x_{356}$ $+37.00x_{322}$ $-18.00x_{2}$ $-14.50x_{5}$ $+6.50x_{219}$ $-5.50x_{202}$
x_{60}	4.5	$-7.00x_{356}$ $+12.00x_{322}$ $-7.00x_{2}$ $-4.50x_{5}$ $+2.50x_{219}$ $-1.50x_{202}$
x_{108}	4.0	$+1.25x_{356}$ $+2.25x_{322}$ $-3.75x_{2}$ $-1.00x_{5}$ $+0.00x_{219}$ $-0.25x_{202}$
x_{62}	5.0	$-7.88x_{356}$ $+13.63x_{322}$ $-8.88x_{2}$ $-6.50x_{5}$ $+3.00x_{219}$ $-2.13x_{202}$
x_{63}	9.49999999999	$-24.00x_{356}$ $+37.00x_{322}$ $-20.00x_{2}$ $-15.50x_{5}$ $+7.50x_{219}$ $-5.50x_{202}$
x_{64}	7.99999999999	$-21.13x_{356}$ $+32.38x_{322}$ $-17.13x_{2}$ $-13.50x_{5}$ $+6.00x_{219}$ $-4.88x_{202}$
x_{65}	4.5	$-5.88x_{356}$ $+10.63x_{322}$ $-6.88x_{2}$ $-5.00x_{5}$ $+2.50x_{219}$ $-1.63x_{202}$

Forming the dual dictionary:

The Final Dual Dictionary is:

Final primal dictionary obtained:

x_{55}	5.99999999999	$-11.25x_{356}$	$+9.75x_{322}$	$-11.25x_{2}$	$-5.00x_{5}$	$+5.00x_{382}$	$-4.75x_{202}$
x_{44}	$3.88378218474e-12$	$+5.88x_{356}$	$-3.63x_{322}$	$+2.88x_{2}$	$+1.50x_{5}$	$-2.00x_{382}$	$+2.13x_{202}$
x_{1}	3.0	$-2.00x_{356}$	$+1.00x_{322}$	$-1.00x_{2}$	$-1.00x_{5}$	$+1.00x_{382}$	$-1.00x_{202}$
x_{12}	32.0	$+20.38x_{356}$	$-24.13x_{322}$	$+14.38x_{2}$	$-4.50x_{5}$	$-4.00x_{382}$	$+4.63x_{202}$
x_{3}	1.0	$+1.88x_{356}$	$-2.63x_{322}$	$-0.12x_{2}$	$+0.50x_{5}$	$-0.00x_{382}$	$+0.13x_{202}$
x_{4}	4.0	$+2.88x_{356}$	$-2.63x_{322}$	$+1.88x_{2}$	$+0.50x_{5}$	$-1.00x_{382}$	$+1.13x_{202}$
x_{13}	3.0	$+0.88x_{356}$	$+2.37x_{322}$	$-2.12x_{2}$	$-1.50x_{5}$	$-1.00x_{382}$	$+1.13x_{202}$
x_{229}	3.99999999999	$-9.00x_{356}$	$+11.00x_{322}$	$-8.00x_{2}$	$-5.00x_{5}$	$+3.00x_{382}$	$-3.00x_{202}$
x_{20}	3.0	$-0.00x_{356}$	$+2.00x_{322}$	$-3.00x_{2}$	$-1.00x_{5}$	$+0.00x_{382}$	$-0.00x_{202}$
x_{16}	9.99999999998	$-25.00x_{356}$	$+21.00x_{322}$	$-21.00x_{2}$	$-11.00x_{5}$	$+9.00x_{382}$	$-8.00x_{202}$
x_{17}	3.0	$+5.00x_{356}$	$-8.00x_{322}$	$-0.00x_{2}$	$+1.00x_{5}$	$+1.00x_{382}$	$-0.00x_{202}$
x_{18}	1.0	$+0.63x_{356}$	$+4.12x_{322}$	$+1.63x_{2}$	$-1.50x_{5}$	$-3.00x_{382}$	$+4.38x_{202}$
x_{114}	4.0	$-4.00x_{356}$	$+5.00x_{322}$	$-6.00x_{2}$	$-2.00x_{5}$	$+2.00x_{382}$	$-2.00x_{202}$
x_{19}	6.0	$-5.88x_{356}$	$+7.63x_{322}$	$-7.88x_{2}$	$-3.50x_{5}$	$+2.00x_{382}$	$-2.13x_{202}$
x_{21}	16.0	$-33.25x_{356}$	$+21.75x_{322}$	$-31.25x_{2}$	$-14.00x_{5}$	$+16.00x_{382}$	$-14.75x_{202}$
x_{15}	14.0	$-42.13x_{356}$	$+33.38x_{322}$	$-33.13x_{2}$	$-16.50x_{5}$	$+16.00x_{382}$	$-15.88x_{202}$
x_{23}	16.0	$-37.13x_{356}$	$+25.38x_{322}$	$-33.13x_{2}$	$-15.50x_{5}$	$+17.00x_{382}$	$-15.88x_{202}$
x_{24}	6.99999999999	$-6.63x_{356}$	$+1.88x_{322}$	$-9.63x_{2}$	$-3.50x_{5}$	$+5.00x_{382}$	$-3.38x_{202}$
x_{25}	13.0	$-28.50x_{356}$	$+17.50x_{322}$	$-26.50x_{2}$	$-12.00x_{5}$	$+14.00x_{382}$	$-12.50x_{202}$
x_{26}	12.0	$-27.63x_{356}$	$+17.88x_{322}$	$-24.63x_{2}$	$-11.50x_{5}$	$+13.00x_{382}$	$-11.38x_{202}$
x_{27}	16.0	$-33.25x_{356}$	$+21.75x_{322}$	$-31.25x_{2}$	$-14.00x_{5}$	$+16.00x_{382}$	$-14.75x_{202}$
x_{28}	13.0	$-20.00x_{356}$	$+14.00x_{322}$	$-22.00x_{2}$	$-10.00x_{5}$	$+10.00x_{382}$	$-9.00x_{202}$
x_{29}	3.0	$+2.75x_{356}$	$-0.25x_{322}$	$-1.25x_{2}$	$+0.00x_{5}$	$-1.00x_{382}$	$+1.25x_{202}$
x_{30}	8.99999999998	$-21.00x_{356}$	$+18.00x_{322}$	$-18.00x_{2}$	$-9.00x_{5}$	$+8.00x_{382}$	$-8.00x_{202}$
x_{6}	$1.65079061532e-12$	$+0.88x_{356}$	$+0.37x_{322}$	$+1.88x_{2}$	$+0.50x_{5}$	$-1.00x_{382}$	$+1.13x_{202}$
x_{31}	5.0	$+8.63x_{356}$	$-7.88x_{322}$	$-0.37x_{2}$	$+1.50x_{5}$	$-1.00x_{382}$	$+2.38x_{202}$
x_{34}	1.00000000001	$+12.13x_{356}$	$-4.38x_{322}$	$+6.13x_{2}$	$+1.50x_{5}$	$-6.00x_{382}$	$+6.88x_{202}$
x_{73}	5.99999999999	$-15.50x_{356}$	$+15.50x_{322}$	$-12.50x_{2}$	$-7.00x_{5}$	$+5.00x_{382}$	$-5.50x_{202}$
x_{33}	4.99999999999	$-2.63x_{356}$	$-2.12x_{322}$	$-6.63x_{2}$	$-1.50x_{5}$	$+4.00x_{382}$	$-2.38x_{202}$
x_{36}	3.0	$+6.63x_{356}$	$-6.88x_{322}$	$+0.63x_{2}$	$+0.50x_{5}$	$-1.00x_{382}$	$+3.38x_{202}$
x_{37}	$3.28448379605e-12$	$+1.75x_{356}$	$+0.75x_{322}$	$+1.75x_{2}$	$+0.00x_{5}$	$-2.00x_{382}$	$+3.25x_{202}$
x_{38}	$3.27726734639e-12$	$+1.75x_{356}$	$+0.75x_{322}$	$+1.75x_{2}$	$+0.00x_{5}$	$-2.00x_{382}$	$+3.25x_{202}$
x_{39}	1.0	$+7.00x_{356}$	$-5.00x_{322}$	$+3.00x_{2}$	$+2.00x_{5}$	$-2.00x_{382}$	$+2.00x_{202}$
x_{40}	3.99999999999	$-2.63x_{356}$	$-3.12x_{322}$	$-5.63x_{2}$	$-0.50x_{5}$	$+4.00x_{382}$	$-2.38x_{202}$
x_{41}	3.00000000001	$+4.50x_{356}$	$+0.50x_{322}$	$+0.50x_{2}$	$+0.00x_{5}$	$-3.00x_{382}$	$+4.50x_{202}$
x_{42}	2.00000000001	$+4.63x_{356}$	$+0.12x_{322}$	$+1.63x_{2}$	$-0.50x_{5}$	$-3.00x_{382}$	$+4.38x_{202}$
x_{43}	1.00000000001	$+7.63x_{356}$	$-2.88x_{322}$	$+3.63x_{2}$	$+1.50x_{5}$	$-4.00x_{382}$	$+5.38x_{202}$
x_{7}	16.0	$+20.87x_{356}$	$-32.62x_{322}$	$-5.13x_{2}$	$+5.50x_{5}$	$+3.00x_{382}$	$-2.88x_{202}$
x_{45}	1.00000000001	$+5.63x_{356}$	$-1.88x_{322}$	$+2.63x_{2}$	$+0.50x_{5}$	$-3.00x_{382}$	$+4.38x_{202}$
x_{46}	3.0	$-1.75x_{356}$	$-2.75x_{322}$	$-3.75x_{2}$	$-1.00x_{5}$	$+3.00x_{382}$	$-1.25x_{202}$
x_{47}	1.00000000001	$+9.50x_{356}$	$-5.50x_{322}$	$+4.50x_{2}$	$+2.00x_{5}$	$-4.00x_{382}$	$+5.50x_{202}$
x_{48}	2.00000000001	$+4.63x_{356}$	$+0.12x_{322}$	$+1.63x_{2}$	$-0.50x_{5}$	$-3.00x_{382}$	$+4.38x_{202}$
x_{10}	$6.59383658785e-12$	$+3.50x_{356}$	$+1.50x_{322}$	$+3.50x_{2}$	$-1.00x_{5}$	$-4.00x_{382}$	$+5.50x_{202}$
x_{50}	1.0	$+0.00x_{356}$	$-0.00x_{322}$	$+0.00x_{2}$	$+0.00x_{5}$	$-0.00x_{382}$	$+1.00x_{202}$
x_{51}	1.00000000001	$+5.63x_{356}$	$-1.88x_{322}$	$+2.63x_{2}$	$+0.50x_{5}$	$-3.00x_{382}$	$+4.38x_{202}$
x_{52}	4.0	$+3.88x_{356}$	$-1.63x_{322}$	$-1.12x_{2}$	$-0.50x_{5}$	$-1.00x_{382}$	$+2.13x_{202}$
x_{53}	3.0	$+6.75x_{356}$	$-7.25x_{322}$	$+0.75x_{2}$	$+1.00x_{5}$	$-1.00x_{382}$	$+3.25x_{202}$
x_{54}	1.00000000001	$+9.50x_{356}$	$-4.50x_{322}$	$+3.50x_{2}$	$+2.00x_{5}$	$-4.00x_{382}$	$+4.50x_{202}$
x_{22}	5.99999999999	$-14.38x_{356}$	$+11.13x_{322}$	$-12.38x_{2}$	$-5.50x_{5}$	$+6.00x_{382}$	$-5.63x_{202}$
x_{56}	6.99999999999	$-9.38x_{356}$	$+7.13x_{322}$	$-10.38x_{2}$	$-4.50x_{5}$	$+5.00x_{382}$	$-4.63x_{202}$
x_{57}	13.0	$-32.50x_{356}$	$+28.50x_{322}$	$-27.50x_{2}$	$-14.00x_{5}$	$+12.00x_{382}$	$-12.50x_{202}$
x_{58}	11.0	$-22.00x_{356}$	$+19.00x_{322}$	$-20.00x_{2}$	$-10.00x_{5}$	$+9.00x_{382}$	$-9.00x_{202}$
x_{59}	13.0	$-36.38x_{356}$	$+32.13x_{322}$	$-29.38x_{2}$	$-14.50x_{5}$	$+13.00x_{382}$	$-13.63x_{202}$
x_{60}	6.99999999999	$-11.38x_{356}$	$+10.13x_{322}$	$-11.38x_{2}$	$-4.50x_{5}$	$+5.00x_{382}$	$-4.63x_{202}$
x_{108}	4.0	$+1.25x_{356}$	$+2.25x_{322}$	$-3.75x_{2}$	$-1.00x_{5}$	$+0.00x_{382}$	$-0.25x_{202}$
x_{62}	7.99999999999	$-13.13x_{356}$	$+11.38x_{322}$	$-14.13x_{2}$	$-6.50x_{5}$	$+6.00x_{382}$	$-5.88x_{202}$
x_{63}	17.0	$-37.13x_{356}$	$+31.38x_{322}$	$-33.13x_{2}$	$-15.50x_{5}$	$+15.00x_{382}$	$-14.88x_{202}$
x_{64}	14.0	$-31.63x_{356}$	$+27.88x_{322}$	$-27.63x_{2}$	$-13.50x_{5}$	$+12.00x_{382}$	$-12.38x_{202}$
x_{65}	6.99999999999	$-10.25x_{356}$	$+8.75x_{322}$	$-11.25x_{2}$	$-5.00x_{5}$	$+5.00x_{382}$	$-4.75x_{202}$

Final answer: 25.000000 Done.Added 573 cuts