

$x_8$	15.0	$-2.000000x_1 - 1.000000x_2 - 3.000000x_3 + 3.000000x_4 - 1.000000x_5 + 3.000000x_6 - 1.000000x_7$
$x_9$	1.0	$-1.000000x_1 - 2.000000x_3 + 2.000000x_4 + 2.000000x_5 - 2.000000x_6 - 1.000000x_7$
$x_{10}$	1.0	$-3.000000x_1 - 2.000000x_2 - 1.000000x_3 - 3.000000x_4 + 1.000000x_6 - 3.000000x_7$
$x_{11}$	8.0	$+2.000000x_2 + 3.000000x_4 - 2.000000x_5 + 2.000000x_6 - 1.000000x_7$
$x_{12}$	3.0	$+1.000000x_1 - 2.000000x_2 - 3.000000x_4 + 3.000000x_5 - 1.000000x_6 - 2.000000x_7$
$x_{13}$	15.0	$+3.000000x_2 + 3.000000x_3 + 2.000000x_4 + 3.000000x_6 + 1.000000x_7$
$x_{14}$	14.0	$+2.000000x_1 - 3.000000x_3 - 3.000000x_4 - 1.000000x_5 - 1.000000x_6$
$x_{15}$	15.0	$+3.000000x_1 - 1.000000x_2 + 2.000000x_3 - 3.000000x_4 + 1.000000x_5 - 1.000000x_6 + 3.000000x_7$
$x_{16}$	6.0	$-3.000000x_1 + 2.000000x_2 - 2.000000x_3 + 1.000000x_4 + 1.000000x_6 - 1.000000x_7$
$x_{17}$	10.0	$-2.000000x_2 + 1.000000x_4 - 1.000000x_5 + 2.000000x_6 - 1.000000x_7$
$z$	0.0	$-2.000000x_1 - 1.000000x_2 + 1.000000x_3 + 1.000000x_5 + 1.000000x_6 + 1.000000x_7$

No initialization required – Proceed to Optimize.

$x_8$	15.0	$-2.000000x_1 - 1.000000x_2 - 3.000000x_3 + 3.000000x_4 - 1.000000x_5 + 3.000000x_6 - 1.000000x_7$
$x_9$	1.0	$-1.000000x_1 - 2.000000x_3 + 2.000000x_4 + 2.000000x_5 - 2.000000x_6 - 1.000000x_7$
$x_{10}$	1.0	$-3.000000x_1 - 2.000000x_2 - 1.000000x_3 - 3.000000x_4 + 1.000000x_6 - 3.000000x_7$
$x_{11}$	8.0	$+2.000000x_2 + 3.000000x_4 - 2.000000x_5 + 2.000000x_6 - 1.000000x_7$
$x_{12}$	3.0	$+1.000000x_1 - 2.000000x_2 - 3.000000x_4 + 3.000000x_5 - 1.000000x_6 - 2.000000x_7$
$x_{13}$	15.0	$+3.000000x_2 + 3.000000x_3 + 2.000000x_4 + 3.000000x_6 + 1.000000x_7$
$x_{14}$	14.0	$+2.000000x_1 - 3.000000x_3 - 3.000000x_4 - 1.000000x_5 - 1.000000x_6$
$x_{15}$	15.0	$+3.000000x_1 - 1.000000x_2 + 2.000000x_3 - 3.000000x_4 + 1.000000x_5 - 1.000000x_6 + 3.000000x_7$
$x_{16}$	6.0	$-3.000000x_1 + 2.000000x_2 - 2.000000x_3 + 1.000000x_4 + 1.000000x_6 - 1.000000x_7$
$x_{17}$	10.0	$-2.000000x_2 + 1.000000x_4 - 1.000000x_5 + 2.000000x_6 - 1.000000x_7$
$z$	0.0	$-2.000000x_1 - 1.000000x_2 + 1.000000x_3 + 1.000000x_5 + 1.000000x_6 + 1.000000x_7$

$x_3$  enters and  $x_9$  leaves

$x_8$	13.5	$-0.500000x_1 - 1.000000x_2 + 1.500000x_9 - 4.000000x_5 + 6.000000x_6 + 0.500000x_7$
$x_3$	0.5	$-0.500000x_1 - 0.500000x_9 + 1.000000x_4 + 1.000000x_5 - 1.000000x_6 - 0.500000x_7$
$x_{10}$	0.5	$-2.500000x_1 - 2.000000x_2 + 0.500000x_9 - 4.000000x_4 - 1.000000x_5 + 2.000000x_6 - 2.500000x_7$
$x_{11}$	8.0	$+2.000000x_2 + 3.000000x_4 - 2.000000x_5 + 2.000000x_6 - 1.000000x_7$
$x_{12}$	3.0	$+1.000000x_1 - 2.000000x_2 - 3.000000x_4 + 3.000000x_5 - 1.000000x_6 - 2.000000x_7$
$x_{13}$	16.5	$-1.500000x_1 + 3.000000x_2 - 1.500000x_9 + 5.000000x_4 + 3.000000x_5 - 0.500000x_7$
$x_{14}$	12.5	$+3.500000x_1 + 1.500000x_9 - 6.000000x_4 - 4.000000x_5 + 2.000000x_6 + 1.500000x_7$
$x_{15}$	16.0	$+2.000000x_1 - 1.000000x_2 - 1.000000x_9 - 1.000000x_4 + 3.000000x_5 - 3.000000x_6 + 2.000000x_7$
$x_{16}$	5.0	$-2.000000x_1 + 2.000000x_2 + 1.000000x_9 - 1.000000x_4 - 2.000000x_5 + 3.000000x_6$
$x_{17}$	10.0	$-2.000000x_2 + 1.000000x_4 - 1.000000x_5 + 2.000000x_6 - 1.000000x_7$
$z$	0.5	$-2.500000x_1 - 1.000000x_2 - 0.500000x_9 + 1.000000x_4 + 2.000000x_5 + 0.500000x_7$

$x_4$  enters and  $x_{10}$  leaves

$x_8$	13.5	$-0.500000x_1 - 1.000000x_2 + 1.500000x_9$	$-4.000000x_5 + 6.000000x_6 + 0.500000x_7$
$x_3$	0.625	$-1.125000x_1 - 0.500000x_2 - 0.375000x_9 - 0.250000x_{10} + 0.750000x_5 - 0.500000x_6 - 1.125000x_7$	
$x_4$	0.125	$-0.625000x_1 - 0.500000x_2 + 0.125000x_9 - 0.250000x_{10} - 0.250000x_5 + 0.500000x_6 - 0.625000x_7$	
$x_{11}$	8.375	$-1.875000x_1 + 0.500000x_2 + 0.375000x_9 - 0.750000x_{10} - 2.750000x_5 + 3.500000x_6 - 2.875000x_7$	
$x_{12}$	2.625	$+2.875000x_1 - 0.500000x_2 - 0.375000x_9 + 0.750000x_{10} + 3.750000x_5 - 2.500000x_6 - 0.125000x_7$	
$x_{13}$	17.125	$-4.625000x_1 + 0.500000x_2 - 0.875000x_9 - 1.250000x_{10} + 1.750000x_5 + 2.500000x_6 - 3.625000x_7$	
$x_{14}$	11.75	$+7.250000x_1 + 3.000000x_2 + 0.750000x_9 + 1.500000x_{10} - 2.500000x_5 - 1.000000x_6 + 5.250000x_7$	
$x_{15}$	15.875	$+2.625000x_1 - 0.500000x_2 - 1.125000x_9 + 0.250000x_{10} + 3.250000x_5 - 3.500000x_6 + 2.625000x_7$	
$x_{16}$	4.875	$-1.375000x_1 + 2.500000x_2 + 0.875000x_9 + 0.250000x_{10} - 1.750000x_5 + 2.500000x_6 + 0.625000x_7$	
$x_{17}$	10.125	$-0.625000x_1 - 2.500000x_2 + 0.125000x_9 - 0.250000x_{10} - 1.250000x_5 + 2.500000x_6 - 1.625000x_7$	
$z$	0.625	$-3.125000x_1 - 1.500000x_2 - 0.375000x_9 - 0.250000x_{10} + 1.750000x_5 + 0.500000x_6 - 0.125000x_7$	

$x_5$  enters and  $x_4$  leaves

$x_8$	11.5	$+9.500000x_1 + 7.000000x_2 - 0.500000x_9 + 4.000000x_{10} + 16.000000x_4 - 2.000000x_6 + 10.500000x_7$	
$x_3$	1.0	$-3.000000x_1 - 2.000000x_2 - 1.000000x_{10} - 3.000000x_4 + 1.000000x_6 - 3.000000x_7$	
$x_5$	0.5	$-2.500000x_1 - 2.000000x_2 + 0.500000x_9 - 1.000000x_{10} - 4.000000x_4 + 2.000000x_6 - 2.500000x_7$	
$x_{11}$	7.0	$+5.000000x_1 + 6.000000x_2 - 1.000000x_9 + 2.000000x_{10} + 11.000000x_4 - 2.000000x_6 + 4.000000x_7$	
$x_{12}$	4.5	$-6.500000x_1 - 8.000000x_2 + 1.500000x_9 - 3.000000x_{10} - 15.000000x_4 + 5.000000x_6 - 9.500000x_7$	
$x_{13}$	18.0	$-9.000000x_1 - 3.000000x_2 - 3.000000x_{10} - 7.000000x_4 + 6.000000x_6 - 8.000000x_7$	
$x_{14}$	10.5	$+13.500000x_1 + 8.000000x_2 - 0.500000x_9 + 4.000000x_{10} + 10.000000x_4 - 6.000000x_6 + 11.500000x_7$	
$x_{15}$	17.5	$-5.500000x_1 - 7.000000x_2 + 0.500000x_9 - 3.000000x_{10} - 13.000000x_4 + 3.000000x_6 - 5.500000x_7$	
$x_{16}$	4.0	$+3.000000x_1 + 6.000000x_2 + 2.000000x_{10} + 7.000000x_4 - 1.000000x_6 + 5.000000x_7$	
$x_{17}$	9.5	$+2.500000x_1 - 0.500000x_9 + 1.000000x_{10} + 5.000000x_4 + 1.500000x_7$	
$z$	1.5	$-7.500000x_1 - 5.000000x_2 + 0.500000x_9 - 2.000000x_{10} - 7.000000x_4 + 4.000000x_6 - 4.500000x_7$	

$x_6$  enters and  $x_{14}$  leaves

$x_8$	8.0	$+5.000000x_1 + 4.333333x_2 - 0.333333x_9 + 2.666667x_{10} + 12.666667x_4 + 0.333333x_{14} + 6.666667x_7$	
$x_3$	2.75	$-0.750000x_1 - 0.666667x_2 - 0.083333x_9 - 0.333333x_{10} - 1.333333x_4 - 0.166667x_{14} - 1.083333x_7$	
$x_5$	4.0	$+2.000000x_1 + 0.666667x_2 + 0.333333x_9 + 0.333333x_{10} - 0.666667x_4 - 0.333333x_{14} + 1.333333x_7$	
$x_{11}$	3.5	$+0.500000x_1 + 3.333333x_2 - 0.833333x_9 + 0.666667x_{10} + 7.666667x_4 + 0.333333x_{14} + 0.166667x_7$	
$x_{12}$	13.25	$+4.750000x_1 - 1.333333x_2 + 1.083333x_9 + 0.333333x_{10} - 6.666667x_4 - 0.833333x_{14} + 0.083333x_7$	
$x_{13}$	28.5	$+4.500000x_1 + 5.000000x_2 - 0.500000x_9 + 1.000000x_{10} + 3.000000x_4 - 1.000000x_{14} + 3.500000x_7$	
$x_6$	1.75	$+2.250000x_1 + 1.333333x_2 - 0.083333x_9 + 0.666667x_{10} + 1.666667x_4 - 0.166667x_{14} + 1.916667x_7$	
$x_{15}$	22.75	$+1.250000x_1 - 3.000000x_2 + 0.250000x_9 - 1.000000x_{10} - 8.000000x_4 - 0.500000x_{14} + 0.250000x_7$	
$x_{16}$	2.25	$+0.750000x_1 + 4.666667x_2 + 0.083333x_9 + 1.333333x_{10} + 5.333333x_4 + 0.166667x_{14} + 3.083333x_7$	
$x_{17}$	9.5	$+2.500000x_1 - 0.500000x_9 + 1.000000x_{10} + 5.000000x_4 + 1.500000x_7$	
$z$	8.5	$+1.500000x_1 + 0.333333x_2 + 0.166667x_9 + 0.666667x_{10} - 0.333333x_4 - 0.666667x_{14} + 3.166667x_7$	

$x_1$  enters and  $x_3$  leaves

$x_8$	26.3333333333	$-6.666667x_3 - 0.111111x_2 - 0.888889x_9 + 0.444444x_{10} + 3.777778x_4 - 0.777778x_{14} - 0.555556x_7$
$x_1$	3.6666666667	$-1.333333x_3 - 0.888889x_2 - 0.111111x_9 - 0.444444x_{10} - 1.777778x_4 - 0.222222x_{14} - 1.444444x_7$
$x_5$	11.3333333333	$-2.666667x_3 - 1.111111x_2 + 0.111111x_9 - 0.555556x_{10} - 4.222222x_4 - 0.777778x_{14} - 1.555556x_7$
$x_{11}$	5.3333333333	$-0.666667x_3 + 2.888889x_2 - 0.888889x_9 + 0.444444x_{10} + 6.777778x_4 + 0.222222x_{14} - 0.555556x_7$
$x_{12}$	30.6666666667	$-6.333333x_3 - 5.555556x_2 + 0.555556x_9 - 1.777778x_{10} - 15.111111x_4 - 1.888889x_{14} - 6.777778x_7$
$x_{13}$	45.0	$-6.000000x_3 + 1.000000x_2 - 1.000000x_9 - 1.000000x_{10} - 5.000000x_4 - 2.000000x_{14} - 3.000000x_7$
$x_6$	10.0	$-3.000000x_3 - 0.666667x_2 - 0.333333x_9 - 0.333333x_{10} - 2.333333x_4 - 0.666667x_{14} - 1.333333x_7$
$x_{15}$	27.3333333333	$-1.666667x_3 - 4.111111x_2 + 0.111111x_9 - 1.555556x_{10} - 10.222222x_4 - 0.777778x_{14} - 1.555556x_7$
$x_{16}$	5.0	$-1.000000x_3 + 4.000000x_2 + 1.000000x_{10} + 4.000000x_4 + 2.000000x_7$
$x_{17}$	18.6666666667	$-3.333333x_3 - 2.222222x_2 - 0.777778x_9 - 0.111111x_{10} + 0.555556x_4 - 0.555556x_{14} - 2.111111x_7$
$z$	14.0	$-2.000000x_3 - 1.000000x_2 + 0.000000x_9 - 0.000000x_{10} - 3.000000x_4 - 1.000000x_{14} + 1.000000x_7$

$x_7$  enters and  $x_1$  leaves

$x_8$	24.9230769231	$-6.153846x_3 + 0.230769x_2 - 0.846154x_9 + 0.615385x_{10} + 4.461538x_4 - 0.692308x_{14} + 0.384615x_1$
$x_7$	2.53846153846	$-0.923077x_3 - 0.615385x_2 - 0.076923x_9 - 0.307692x_{10} - 1.230769x_4 - 0.153846x_{14} - 0.692308x_1$
$x_5$	7.38461538462	$-1.230769x_3 - 0.153846x_2 + 0.230769x_9 - 0.076923x_{10} - 2.307692x_4 - 0.538462x_{14} + 1.076923x_1$
$x_{11}$	3.92307692308	$-0.153846x_3 + 3.230769x_2 - 0.846154x_9 + 0.615385x_{10} + 7.461538x_4 + 0.307692x_{14} + 0.384615x_1$
$x_{12}$	13.4615384615	$-0.076923x_3 - 1.384615x_2 + 1.076923x_9 + 0.307692x_{10} - 6.769231x_4 - 0.846154x_{14} + 4.692308x_1$
$x_{13}$	37.3846153846	$-3.230769x_3 + 2.846154x_2 - 0.769231x_9 - 0.076923x_{10} - 1.307692x_4 - 1.538462x_{14} + 2.076923x_1$
$x_6$	6.61538461538	$-1.769231x_3 + 0.153846x_2 - 0.230769x_9 + 0.076923x_{10} - 0.692308x_4 - 0.461538x_{14} + 0.923077x_1$
$x_{15}$	23.3846153846	$-0.230769x_3 - 3.153846x_2 + 0.230769x_9 - 1.076923x_{10} - 8.307692x_4 - 0.538462x_{14} + 1.076923x_1$
$x_{16}$	10.0769230769	$-2.846154x_3 + 2.769231x_2 - 0.153846x_9 + 0.384615x_{10} + 1.538462x_4 - 0.307692x_{14} - 1.384615x_1$
$x_{17}$	13.3076923077	$-1.384615x_3 - 0.923077x_2 - 0.615385x_9 + 0.538462x_{10} + 3.153846x_4 - 0.230769x_{14} + 1.461538x_1$
$z$	16.5384615385	$-2.923077x_3 - 1.615385x_2 - 0.076923x_9 - 0.307692x_{10} - 4.230769x_4 - 1.153846x_{14} - 0.692308x_1$

$x_{-1}$  enters and Final Dictionary Solution: 16.5384615385 Num Pivots: 6