x_8	3.0	$-2.000000x_2 +3.000000x_3 \quad -2.000000x_5 \quad -1.000000x_7$
x_9	1.0	$+2.000000x_1 +1.000000x_2 +2.000000x_3 +1.000000x_4 -3.000000x_5 -2.000000x_6$
x_{10}	9.0	$+1.000000x_2 -1.000000x_3 +2.000000x_4 +2.000000x_5 +3.000000x_6 +3.000000x_7$
x_{11}	9.0	$+2.000000x_1 +2.000000x_2 -3.000000x_3 -1.000000x_4 -3.000000x_5 -1.000000x_6 -3.000000x_7$
x_{12}	7.0	$-2.000000x_1 +3.000000x_2 +3.000000x_3 +3.000000x_4 +1.000000x_5 \quad -3.000000x_7$
x_{13}	8.0	$-3.000000x_1 +2.000000x_2 +2.000000x_3 +1.000000x_4 -1.000000x_5 +2.000000x_6 +3.000000x_7$
x_{14}	13.0	$-3.000000x_1 \quad -1.000000x_3 \quad +1.000000x_5 \quad -1.000000x_7$
x_{15}	6.0	$+2.000000x_1 -2.000000x_2 +2.000000x_3 \quad +2.000000x_6 +3.000000x_7$
x_{16}	6.0	$-3.000000x_1 +3.000000x_2 \quad +1.000000x_6 +3.000000x_7$
x_{17}	15.0	$-1.000000x_2 +3.000000x_3 +2.000000x_4 -2.000000x_5 -1.000000x_6 +2.000000x_7$
z	0.0	$+2.000000x_1 -2.000000x_2 -2.000000x_3 +2.000000x_4 -1.000000x_5 +2.000000x_6$

No initialization required –¿ Proceed to Optimize.

x_8	3.0	$-2.000000x_2 +3.000000x_3 \quad -2.000000x_5 \quad -1.000000x_7$
x_9	1.0	$+2.000000x_1 +1.000000x_2 +2.000000x_3 +1.000000x_4 -3.000000x_5 -2.000000x_6$
x_{10}	9.0	$+1.000000x_2 -1.000000x_3 +2.000000x_4 +2.000000x_5 +3.000000x_6 +3.000000x_7$
x_{11}	9.0	$+2.000000x_1 +2.000000x_2 -3.000000x_3 -1.000000x_4 -3.000000x_5 -1.000000x_6 -3.000000x_7$
x_{12}	7.0	$-2.000000x_1 +3.000000x_2 +3.000000x_3 +3.000000x_4 +1.000000x_5 \quad -3.000000x_7$
x_{13}	8.0	$-3.000000x_1 +2.000000x_2 +2.000000x_3 +1.000000x_4 -1.000000x_5 +2.000000x_6 +3.000000x_7$
x_{14}	13.0	$-3.000000x_1 \quad -1.000000x_3 \quad +1.000000x_5 \quad -1.000000x_7$
x_{15}	6.0	$+2.000000x_1 -2.000000x_2 +2.000000x_3 \quad +2.000000x_6 +3.000000x_7$
x_{16}	6.0	$-3.000000x_1 +3.000000x_2 \quad +1.000000x_6 +3.000000x_7$
x_{17}	15.0	$-1.000000x_2 +3.000000x_3 +2.000000x_4 -2.000000x_5 -1.000000x_6 +2.000000x_7$
z	0.0	$+2.000000x_1 -2.000000x_2 -2.000000x_3 +2.000000x_4 -1.000000x_5 +2.000000x_6$

x_1 enters and x_{16} leaves

x_8	3.0	$-2.000000x_2 +3.000000x_3 \quad -2.000000x_5 \quad -1.000000x_7$
x_9	5.0	$-0.666667x_{16} +3.000000x_2 +2.000000x_3 +1.000000x_4 -3.000000x_5 -1.333333x_6 +2.000000x_7$
x_{10}	9.0	$+1.000000x_2 -1.000000x_3 +2.000000x_4 +2.000000x_5 +3.000000x_6 +3.000000x_7$
x_{11}	13.0	$-0.666667x_{16} +4.000000x_2 -3.000000x_3 -1.000000x_4 -3.000000x_5 -0.333333x_6 -1.000000x_7$
x_{12}	3.0	$+0.666667x_{16} +1.000000x_2 +3.000000x_3 +3.000000x_4 +1.000000x_5 -0.666667x_6 -5.000000x_7$
x_{13}	2.0	$+1.000000x_{16} -1.000000x_2 +2.000000x_3 +1.000000x_4 -1.000000x_5 +1.000000x_6$
x_{14}	7.0	$+1.000000x_{16} -3.000000x_2 -1.000000x_3 \quad +1.000000x_5 -1.000000x_6 -4.000000x_7$
x_{15}	10.0	$-0.666667x_{16} \quad +2.000000x_3 \quad +2.666667x_6 +5.000000x_7$
x_1	2.0	$-0.333333x_{16} +1.000000x_2 \quad +0.333333x_6 +1.000000x_7$
x_{17}	15.0	$-1.000000x_2 +3.000000x_3 +2.000000x_4 -2.000000x_5 -1.000000x_6 +2.000000x_7$
z	4.0	$-0.666667x_{16} \quad -2.000000x_3 +2.000000x_4 -1.000000x_5 +2.666667x_6 +2.000000x_7$

x_4 enters and x_{11} leaves

		x_{16}	x_2	x_3	x_{11}	x_5	x_6	x_7
x_8	3.0		$-2.000000x_2$	$+3.000000x_3$		$-2.000000x_5$		$-1.000000x_7$
x_9	18.0	$-1.333333x_{16}$	$+7.000000x_2$	$-1.000000x_3$	$-1.000000x_{11}$	$-6.000000x_5$	$-1.666667x_6$	$+1.000000x_7$
x_{10}	35.0	$-1.333333x_{16}$	$+9.000000x_2$	$-7.000000x_3$	$-2.000000x_{11}$	$-4.000000x_5$	$+2.333333x_6$	$+1.000000x_7$
x_4	13.0	$-0.666667x_{16}$	$+4.000000x_2$	$-3.000000x_3$	$-1.000000x_{11}$	$-3.000000x_5$	$-0.333333x_6$	$-1.000000x_7$
x_{12}	42.0	$-1.333333x_{16}$	$+13.000000x_2$	$-6.000000x_3$	$-3.000000x_{11}$	$-8.000000x_5$	$-1.666667x_6$	$-8.000000x_7$
x_{13}	15.0	$+0.333333x_{16}$	$+3.000000x_2$	$-1.000000x_3$	$-1.000000x_{11}$	$-4.000000x_5$	$+0.666667x_6$	$-1.000000x_7$
x_{14}	7.0	$+1.000000x_{16}$	$-3.000000x_2$	$-1.000000x_3$		$+1.000000x_5$	$-1.000000x_6$	$-4.000000x_7$
x_{15}	10.0	$-0.666667x_{16}$		$+2.000000x_3$			$+2.666667x_6$	$+5.000000x_7$
x_1	2.0	$-0.333333x_{16}$	$+1.000000x_2$				$+0.333333x_6$	$+1.000000x_7$
x_{17}	41.0	$-1.333333x_{16}$	$+7.000000x_2$	$-3.000000x_3$	$-2.000000x_{11}$	$-8.000000x_5$	$-1.666667x_6$	
z	30.0	$-2.000000x_{16}$	$+8.000000x_2$	$-8.000000x_3$	$-2.000000x_{11}$	$-7.000000x_5$	$+2.000000x_6$	

x_2 enters and x_8 leaves

		x_{16}	x_8	x_3	x_{11}	x_5	x_6	x_7
x_2	1.5		$-0.500000x_8$	$+1.500000x_3$		$-1.000000x_5$		$-0.500000x_7$
x_9	28.5	$-1.333333x_{16}$	$-3.500000x_8$	$+9.500000x_3$	$-1.000000x_{11}$	$-13.000000x_5$	$-1.666667x_6$	$-2.500000x_7$
x_{10}	48.5	$-1.333333x_{16}$	$-4.500000x_8$	$+6.500000x_3$	$-2.000000x_{11}$	$-13.000000x_5$	$+2.333333x_6$	$-3.500000x_7$
x_4	19.0	$-0.666667x_{16}$	$-2.000000x_8$	$+3.000000x_3$	$-1.000000x_{11}$	$-7.000000x_5$	$-0.333333x_6$	$-3.000000x_7$
x_{12}	61.5	$-1.333333x_{16}$	$-6.500000x_8$	$+13.500000x_3$	$-3.000000x_{11}$	$-21.000000x_5$	$-1.666667x_6$	$-14.500000x_7$
x_{13}	19.5	$+0.333333x_{16}$	$-1.500000x_8$	$+3.500000x_3$	$-1.000000x_{11}$	$-7.000000x_5$	$+0.666667x_6$	$-2.500000x_7$
x_{14}	2.5	$+1.000000x_{16}$	$+1.500000x_8$	$-5.500000x_3$		$+4.000000x_5$	$-1.000000x_6$	$-2.500000x_7$
x_{15}	10.0	$-0.666667x_{16}$		$+2.000000x_3$			$+2.666667x_6$	$+5.000000x_7$
x_1	3.5	$-0.333333x_{16}$	$-0.500000x_8$	$+1.500000x_3$		$-1.000000x_5$	$+0.333333x_6$	$+0.500000x_7$
x_{17}	51.5	$-1.333333x_{16}$	$-3.500000x_8$	$+7.500000x_3$	$-2.000000x_{11}$	$-15.000000x_5$	$-1.666667x_6$	$-3.500000x_7$
z	42.0	$-2.000000x_{16}$	$-4.000000x_8$	$+4.000000x_3$	$-2.000000x_{11}$	$-15.000000x_5$	$+2.000000x_6$	$-4.000000x_7$

x_3 enters and x_{14} leaves

		x_{16}	x_8	x_{14}	x_{11}	x_5	x_6	x_7
x_2	2.18181818182	$+0.272727x_{16}$	$-0.090909x_8$	$-0.272727x_{14}$		$+0.090909x_5$	$-0.272727x_6$	$-1.181818x_7$
x_9	32.8181818182	$+0.393939x_{16}$	$-0.909091x_8$	$-1.727273x_{14}$	$-1.000000x_{11}$	$-6.090909x_5$	$-3.393939x_6$	$-6.818182x_7$
x_{10}	51.4545454545	$-0.151515x_{16}$	$-2.727273x_8$	$-1.181818x_{14}$	$-2.000000x_{11}$	$-8.272727x_5$	$+1.151515x_6$	$-6.454545x_7$
x_4	20.3636363636	$-0.121212x_{16}$	$-1.181818x_8$	$-0.545455x_{14}$	$-1.000000x_{11}$	$-4.818182x_5$	$-0.878788x_6$	$-4.363636x_7$
x_{12}	67.6363636364	$+1.121212x_{16}$	$-2.818182x_8$	$-2.454545x_{14}$	$-3.000000x_{11}$	$-11.181818x_5$	$-4.121212x_6$	$-20.636364x_7$
x_{13}	21.0909090909	$+0.969697x_{16}$	$-0.545455x_8$	$-0.636364x_{14}$	$-1.000000x_{11}$	$-4.454545x_5$	$+0.030303x_6$	$-4.090909x_7$
x_3	0.454545454545	$+0.181818x_{16}$	$+0.272727x_8$	$-0.181818x_{14}$		$+0.727273x_5$	$-0.181818x_6$	$-0.454545x_7$
x_{15}	10.9090909091	$-0.303030x_{16}$	$+0.545455x_8$	$-0.363636x_{14}$		$+1.454545x_5$	$+2.303030x_6$	$+4.090909x_7$
x_1	4.18181818182	$-0.060606x_{16}$	$-0.090909x_8$	$-0.272727x_{14}$		$+0.090909x_5$	$+0.060606x_6$	$-0.181818x_7$
x_{17}	54.9090909091	$+0.030303x_{16}$	$-1.454545x_8$	$-1.363636x_{14}$	$-2.000000x_{11}$	$-9.545455x_5$	$-3.030303x_6$	$-6.909091x_7$
z	43.8181818182	$-1.272727x_{16}$	$-2.909091x_8$	$-0.727273x_{14}$	$-2.000000x_{11}$	$-12.090909x_5$	$+1.272727x_6$	$-5.818182x_7$

x_6 enters and x_3 leaves

basis	value	x_{16}	x_8	x_{14}	x_{11}	x_5	x_3	x_7
x_2	1.5		$-0.500000x_8$			$-1.000000x_5$	$+1.500000x_3$	$-0.500000x_7$
x_9	24.3333333333	$-3.000000x_{16}$	$-6.000000x_8$	$+1.666667x_{14}$	$-1.000000x_{11}$	$-19.666667x_5$	$+18.666667x_3$	$+1.666667x_7$
x_{10}	54.3333333333	$+1.000000x_{16}$	$-1.000000x_8$	$-2.333333x_{14}$	$-2.000000x_{11}$	$-3.666667x_5$	$-6.333333x_3$	$-9.333333x_7$
x_4	18.1666666667	$-1.000000x_{16}$	$-2.500000x_8$	$+0.333333x_{14}$	$-1.000000x_{11}$	$-8.333333x_5$	$+4.833333x_3$	$-2.166667x_7$
x_{12}	57.3333333333	$-3.000000x_{16}$	$-9.000000x_8$	$+1.666667x_{14}$	$-3.000000x_{11}$	$-27.666667x_5$	$+22.666667x_3$	$-10.333333x_7$
x_{13}	21.1666666667	$+1.000000x_{16}$	$-0.500000x_8$	$-0.666667x_{14}$	$-1.000000x_{11}$	$-4.333333x_5$	$-0.166667x_3$	$-4.166667x_7$
x_6	2.5	$+1.000000x_{16}$	$+1.500000x_8$	$-1.000000x_{14}$		$+4.000000x_5$	$-5.500000x_3$	$-2.500000x_7$
x_{15}	16.6666666667	$+2.000000x_{16}$	$+4.000000x_8$	$-2.666667x_{14}$		$+10.666667x_5$	$-12.666667x_3$	$-1.666667x_7$
x_1	4.33333333333		$-0.000000x_8$	$-0.333333x_{14}$		$+0.333333x_5$	$-0.333333x_3$	$-0.333333x_7$
x_{17}	47.3333333333	$-3.000000x_{16}$	$-6.000000x_8$	$+1.666667x_{14}$	$-2.000000x_{11}$	$-21.666667x_5$	$+16.666667x_3$	$+0.666667x_7$
z	47.0	$-0.000000x_{16}$	$-1.000000x_8$	$-2.000000x_{14}$	$-2.000000x_{11}$	$-7.000000x_5$	$-7.000000x_3$	$-9.000000x_7$

x_{-1} enters and Final Dictionary Solution: 47.0 Num Pivots: 5