Read in the following dictionary:

## 0.1 Initialization Phase: Dual Problem Solving

New Objective in primal was changed to:

$$\max \sum_{j=1}^{3} -x_j$$

Primal variable  $x_j$  corresponds to dual variable  $y_j$  for j = 1, ..., 8 Dual Dictionary (with objective changed is):

Initialization succeeded in finding final dual dictionary with 4 pivots

Primal Dictionary is:

Primal Dictionary with original objective is:

## 1 Optimization Phase Simplex

Starting Dictionary is:

$x_2$	0.896188158962	$+0.08x_8 +0.06x_4 +0.06x_5$
$x_3$	0.185725871857	$-0.05x_8 + 0.01x_4 + 0.05x_5$
$x_6$	1.89132197891	$+0.88x_8 +0.32x_4 -0.02x_5$
$x_7$	6.38767234388	$+0.23x_8 +0.51x_4 +0.68x_5$
$x_1$	0.0908353609084	$+0.06x_8 -0.06x_4 +0.07x_5$
$\overline{z}$	-4.3195458232	$-0.43x_8 - 0.05x_4 - 0.62x_5$

Final Dictionary Solution: -4.3195458232 Num Pivots: 1