An Optimal Triangle Having A Simply Degenerate Vertex

Tableau 1:

Tableau 2:

A complete list of optimal basic feasible solutions follows.

Tableau 3:

Tableau 4:

The following are degenerate.

Tableau 5:

Tableau 6:

Tableau 7:

Dual Of "An Optimal Triangle Having A Simply Degenerate Vertex"

Tableau 1: w_1 w_2 w_3 w_4 w_5 w_6 -2-70 0 0 1 -11 w_3 7 5 -30 1 0 0 w_4 w_5 -3-80 0 1 0 -14-71 0 0 0 1 -421 0 0 0 0 6 0

Tableau 2: w_6 w_1 w_2 w_3 w_4 w_5 0 1 0 0 w_3 $\frac{49}{3}$ $\frac{49}{3}$ 0 0 0 1 w_4 $\frac{14}{3}$ 0 0 w_1 1 0 $\frac{35}{3}$ $\frac{35}{3}$ 0 0 0 1 w_6 0 5 0 0 0 2 -28

A complete list of optimal basic feasible solutions follows.

Tableau 3: w_4 w_5 w_1 w_2 w_3 w_6 $-\frac{41}{49}$ 0 0 0 1 0 w_3 0 0 0 1 1 w_2 $\frac{8}{49}$ $-\frac{3}{49}$ 1 0 002 w_1 0 0 0 1 0 w_6 $\frac{123}{49}$ 0 0 0 0 -33

Tableau 4: w_1 w_2 w_3 w_4 w_5 w_6 $-\frac{30}{7}$ $-\frac{41}{7}$ 0 0 0 1 0 w_3 $-\frac{5}{7}$ 0 0 0 1 w_2 $-\frac{3}{7}$ 1 00 02 w_1 0 0 1 0 w_5 0 -5-7 $\frac{123}{7}$ 0 0 0 -330

Tableau 5: w_1 w_2 w_3 w_4 w_5 w_6 $-\frac{7}{41}$ 0 0 0 1 0 w_6 0 1 0 0 1 w_2 $-\frac{3}{41}$ $\frac{7}{41}$ 0 02 1 0 w_1 $-\frac{49}{41}$ 0 0 1 0 0 w_5 0 0 3 0 0 0 -33

Tableau 6:

$$w_1$$
 w_2 w_3 w_4 w_5 w_6
 w_6 0 0 7 0 -6 1 0

 w_2 0 1 $-\frac{3}{5}$ 0 $\frac{2}{5}$ 0 1

 w_1 1 0 $\frac{8}{5}$ 0 $-\frac{7}{5}$ 0 2

 w_4 0 0 $-\frac{49}{5}$ 1 $\frac{41}{5}$ 0 0

 w_5 0 -33

Tableau 7: