

Data for Econ 172A: Problem Set 2, Question 4

Answer

Answer Report

Target Cell (Max)

Cell	Name	Original Value	Final Value
\$B\$24	Value	0	242666.667

Adjustable Cells

Cell	Name	Original Value	Final Value
\$E\$8	SS	0	1000
\$F\$8	AS	0	39000
\$G\$8	SC	0	12000
\$H\$8	DC	0	5333.333333

Constraints

Cell	Name	Cell Value	Formula	Status	Slack
\$I\$16	Steel LHS	258000	\$I\$16<=\$K\$16	BIND	0
\$I\$17	Aluminum LHS	199000	\$I\$17<=\$K\$17	NB	5000
\$I\$18	Capacity LHS	40000	\$I\$18<=\$K\$18	BIND	0
\$I\$19	Casket Bodies LHS	17333.33333	\$I\$19<=\$K\$19	NB	7666.666667
\$I\$20	Time LHS	8000	\$I\$20<=\$K\$20	BIND	0
\$I\$21	SC market limit LHS	12000	\$I\$21<=\$K\$21	BIND	0
\$I\$22	DC market limit LHS	5333.333333	\$I\$22<=\$K\$22	NB	4666.666667
\$E\$8	SS	1000	\$E\$8>=0	NB	1000
\$F\$8	AS	39000	\$F\$8>=0	NB	39000
\$G\$8	SC	12000	\$G\$8>=0	NB	120000
\$H\$8	DC	5333.333333	\$H\$8>=0	NB	5333.33333333

Sensitivity Report

Adjustable Cells

Cell	Name	Final Value	Reduced Cost	Objective Coefficient	Allowable Increase	Allowable Decrease
\$E\$8	SS	1000	0	0.6	???	0
\$F\$8	AS	390000	0	0.6	0	0.6
\$G\$8	SC	12000	0	12	1E+30	2.666666667
\$H\$8	DC	5333.33	0	14	4	14

Constraints

Cell	Name	Final Value	Shadow Price	Constraint R.H. Side	Allowable Increase	Allowable Decrease
\$I\$16	Steel LHS	258000	0	258000	78000	2000
\$I\$17	Aluminum LHS	199000	0	204000	1 E+30	5000
\$I\$18	Capacity LHS	40000	0.6	40000	5000	39000
\$I\$19	Casket Bodies LHS	17333.33	0	25000	1 E+30	7666.666667
\$I\$20	Time LHS	8000	23.33333333	8000	100	3200
\$I\$21	SC market limit LHS	12000	2.666666667	12000	???	7000
\$I\$22	DC market limit LHS	5333.333	0	10000	1 E+30	4666.666667