

Microsoft Excel 15.0 Answer Report

Worksheet: [dklick_asst02.xlsx]IncomeAnalysis

Report Created: 1/16/2017 9:54:62 AM

Result: Solver found a solution. All Constraints and optimality conditions are satisfied.

Solver Engine

Engine: GRG Nonlinear

Solution Time: 0 Seconds.

Iterations: 3 Subproblems: 0

Solver Options

Max Time Unlimited, Iterations Unlimited, Precision 0.000001, Use Automatic Scaling

Convergence 0.0001, Population Size 100, Random Seed 0, Derivatives Forward, Require Bounds

Max Subproblems Unlimited, Max Integer Sols Unlimited, Integer Tolerance 1%, Assume NonNegative

Objective Cell (Value Of)

Cell	Name	Original Value	Final Value
\$B\$47	Net Margin Ratio	1.5%	15.0%

Variable Cells

Cell	Name	Original Value	Final Value	Integer
\$B\$3	Number of Units Sold	150	182	Contin
\$B\$4	Revenue Per unit	\$ 650.00	\$ 794.67	Contin

Constraints

Cell	Name	Cell Value	Formula	Status	Slack
\$B\$30	Total Variable Expenses	\$ 98,648.43	\$B\$30<=110000	Not Binding	11351.57096
\$B\$47	Net Margin Ratio	15.0%	\$B\$47=0.15	Binding	0
\$B\$3	Number of Units Sold	182	\$B\$3<=250	Not Binding	68.21989194
\$B\$4	Revenue Per unit	\$ 794.67	\$B\$4<=1100	Not Binding	305.3265403

