

ACCOUNTRONIC SOFTWARE

# *Excel*

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بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

ثُمَّ رُدُّوْا إِلَى اللَّهِ مَوْلَاهُمْ الْحَقَّ ۗ لَا إِلَهَ إِلَّا لَهُ الْحُكْمُ وَهُوَ  
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صدق الله العظيم

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<b>Solver</b>		-
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<b>Multiple</b>	)	-
<b>QBasic</b>	<b>(Objective Programming</b>	

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### Power Point

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sherif\_tawfik@hotmail.com

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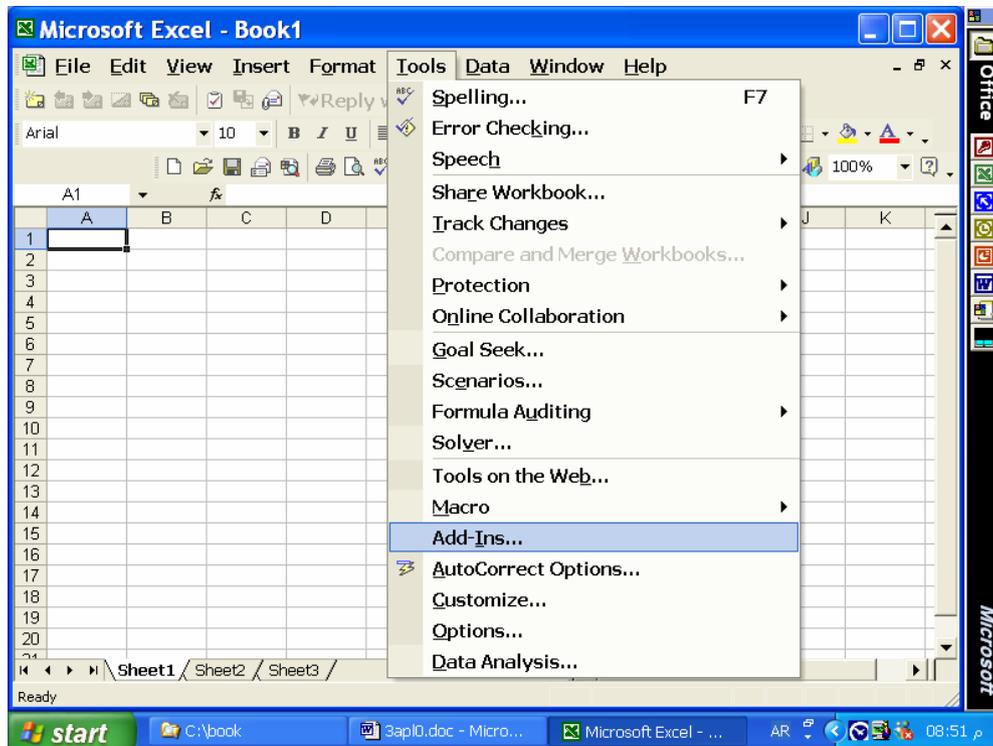
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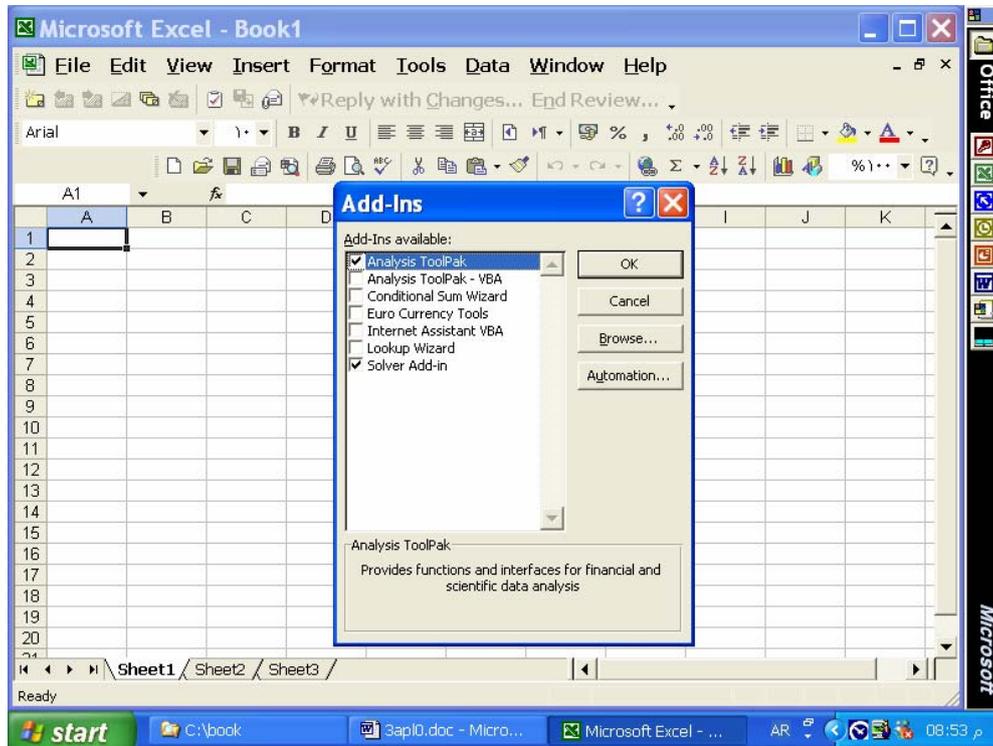
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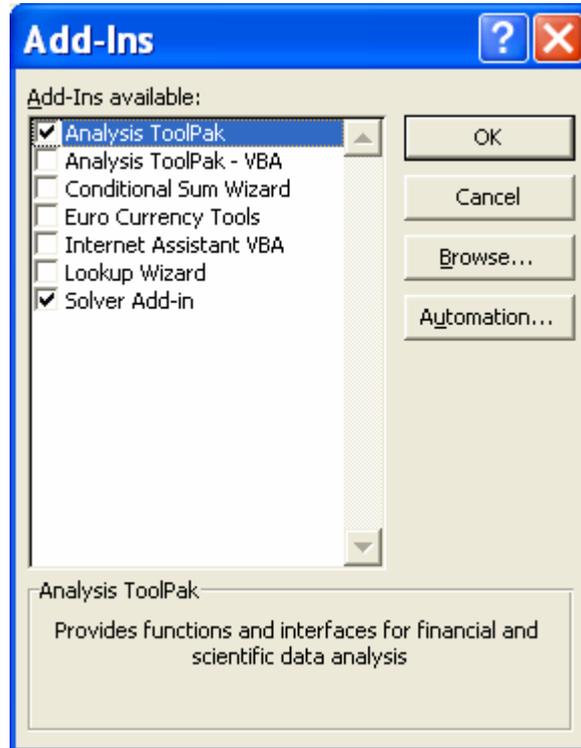
## *Solver*

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**Data Analysis (Analysis Solver  
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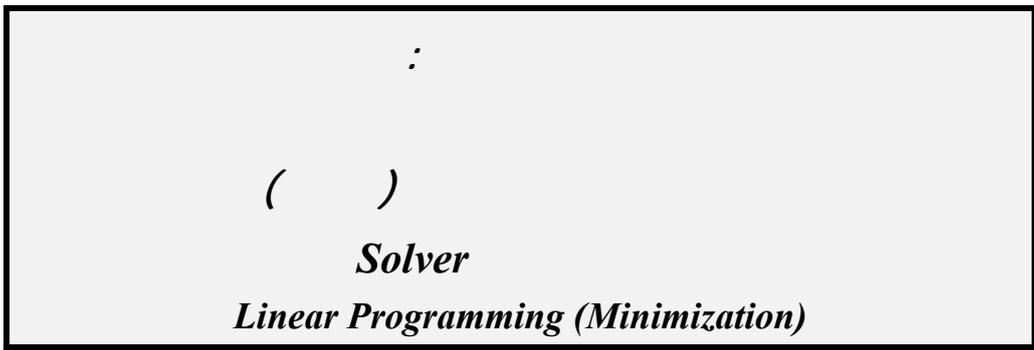


: Solver Analysis ToolPak



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**Solver**

**Data File: LP2.xls**

(Enter the next model parameters to excel worksheet and solve the model, data already entered to data file):

**Min  $2x + 3y$  (where x and y are two products,  
the function represents profit contribution)**

**Subject to (demand, total production, and processing time  
minimum or maximum requirements):**

$$x \Rightarrow 125 \text{ (demand for product x)}$$

$$x + y \Rightarrow 350 \text{ (total production)}$$

$$2x + y \leq 600 \text{ (processing time)}$$

$$x, y \Rightarrow 0$$

1. Enter the problem in the top part of the worksheet as shown in data file and in the following screens.
2. (a) Select the Tools pull-down menu, (b) Select the Solver option, (c) When the Solver Parameters dialog box appears enter B17 into the set cell box and includes the objective function, select Equal To: Min option. Enter constraint parameters as shown in screen four below.

3. (d) When the Solver Parameters dialog box reappears: choose Options, (e) When the Solver Options dialog box appears: select Assume Non-Negative and click OK, (f) When the Solver Parameters dialog box appears: choose Solve, and (g) When the Solver Results dialog box appears: select Keep Solver Solution, and click OK.

The following screens exhibit the above steps to enter and solve the excel application (Note: Required data file is already saved on OR Data Files):

LP2.xls :

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3 + 2 :

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125 <=

350 <= +

600 >= + 2

=<

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Min

Solve

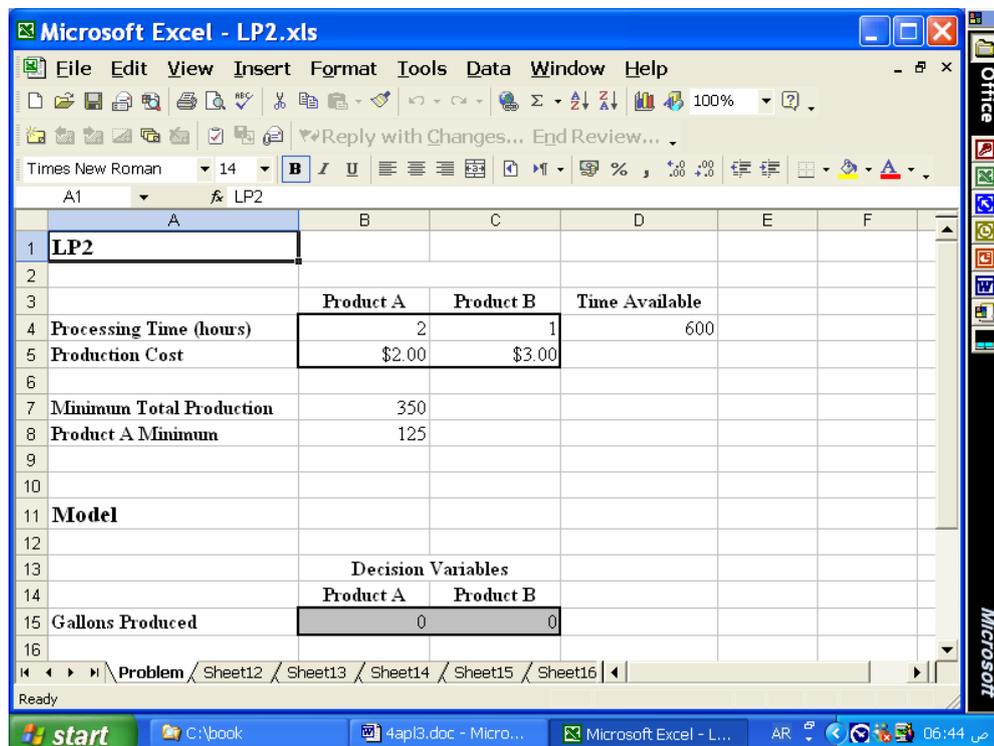
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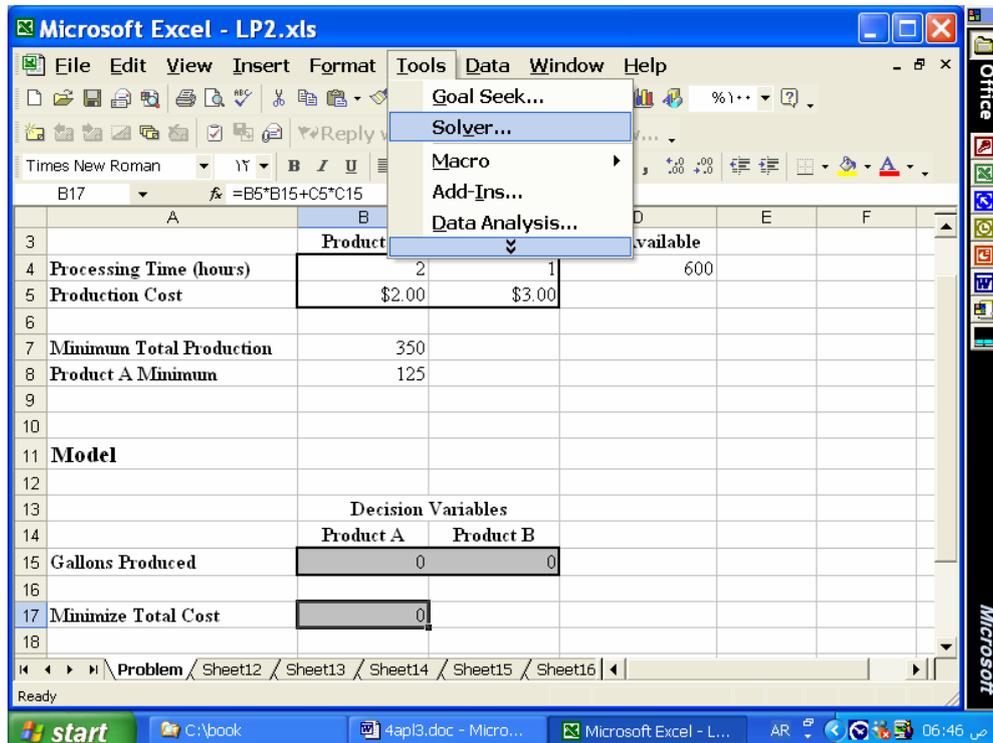
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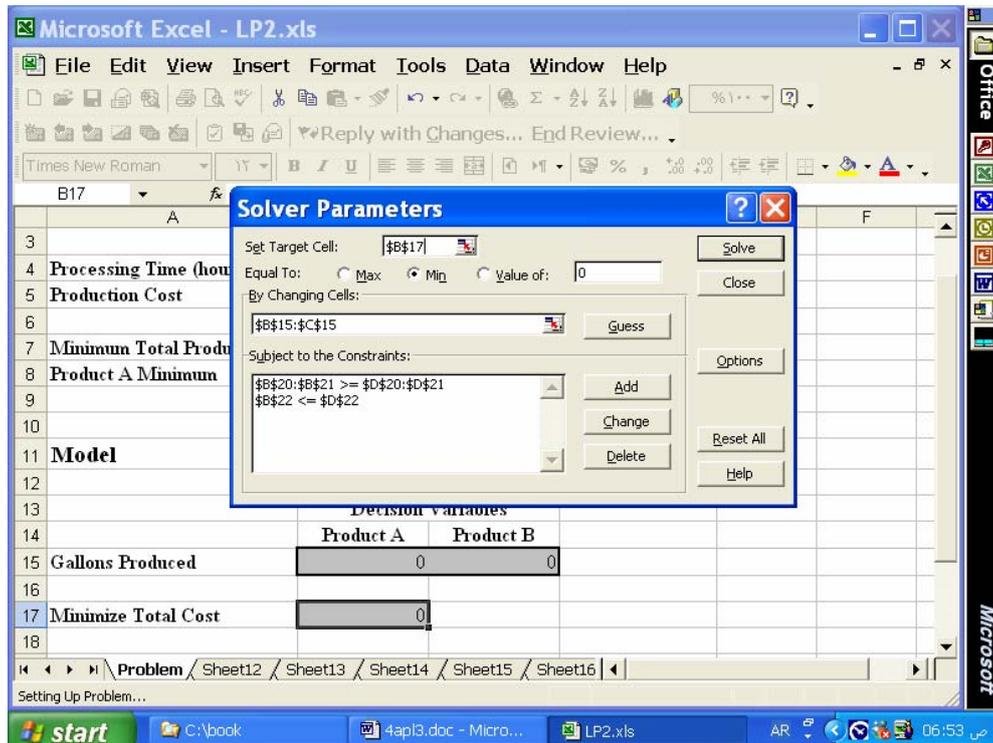
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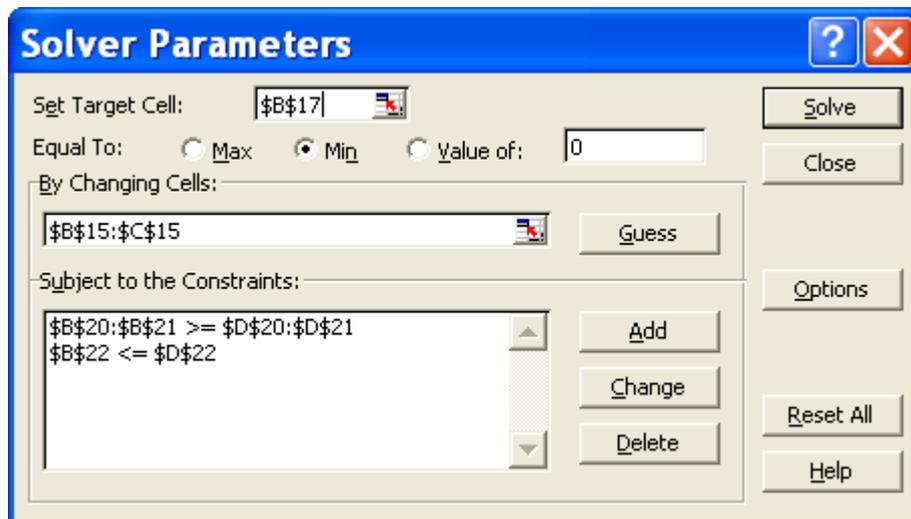


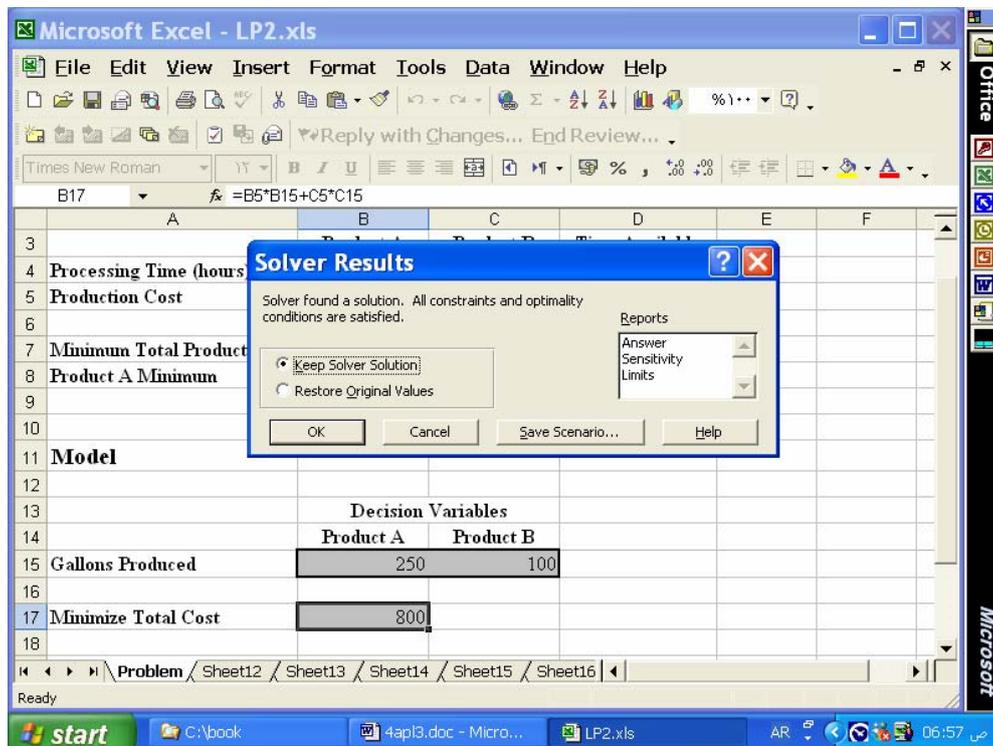


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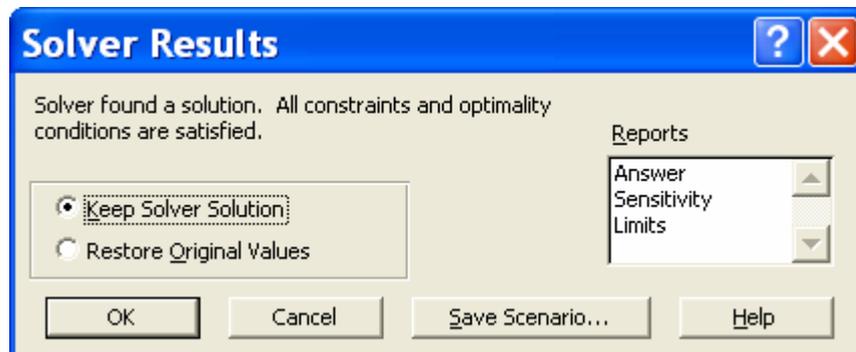


:( ) Solver





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	A	B	C	D	E	F
8	<b>Product A Minimum</b>	125				
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10						
11	<b>Model</b>					
12						
13		<b>Decision Variables</b>				
14		<b>Product A</b>	<b>Product B</b>			
15	<b>Gallons Produced</b>	250	100			
16						
17	<b>Minimize Total Cost</b>	800				
18						
19	<b>Constraints</b>	<b>LHS</b>		<b>RHS</b>		
20	Demand for Product A	250	$\geq$		125	
21	Total Production	350	$\geq$		350	
22	Processing Time	600	$\leq$		600	
23						

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