Linear Programming Example (Copyright 1997, TRIUS, Inc.)

Maximize the function: P = 10x + 5y
Subject to the constraints:

The solution matrix is set-up in AS-EASY-AS as shown below, in cells A13..D15. The first row contains the first constraint, the second row represents the second constraint and the third row the function to be Maximized. Cells A17..A19 contain the solution tah can obtained by the Command Sequence: Array, Linear, Input= A13.D15, Output= A17

6	2
2	4
10	5

max
X1
X2

{GENOPTION "Pn"}
{RANGELOCK output,0}
{MATLIN a13..d15,a17}
{RANGELOCK output,1}
{GENOPTION "Py"}

6x + 2y LE 36
2x + 4y LE 32

le		36
le		32
eq	max	

The solution indicates that the maximum value of the function is P = 70, and it occurs at the x and y values of x=4 and y=6.

F3 then \A for Automatic Solution.