

MODEL:

SETS:

PRODUKT/1..4/: x,gewinn;

ENDSETS

MAX = @SUM(PRODUKT(i): gewinn(i) * x(i));

@GIN (x(1));

@GIN (x(2));

@BIN (x(3));

@FREE (x(4));

$3x(1) + 2x(2) + 4x(3) + x(4) \leq 20;$
 $2.5x(1) + 4x(2) + 1.5x(4) \leq 16.5;$
 $x(3) + x(4) = -1;$

DATA:

gewinn = 4,5,3,1;

ENDDATA

END

MODEL:

MAX= 4 * X_1 + 5 * X_2 + 3 * X_3 + X_4 ;

3 * X_1 + 2 * X_2 + 4 * X_3 + X_4 <= 20 ;

2.5 * X_1 + 4 * X_2 + 1.5 * X_4 <= 16.5 ;

X_3 + X_4 = - 1 ;

@GIN(X_1); @GIN(X_2); @BIN(X_3); @FREE(X_4);

END

Global optimal solution found at iteration:
Objective value:

0
28.00000

Variable	Value	Reduced Cost
X(1)	3.000000	-4.000000
X(2)	3.000000	-5.000000
X(3)	1.000000	-2.000000
X(4)	-2.000000	0.000000
GEWINN(1)	4.000000	0.000000
GEWINN(2)	5.000000	0.000000
GEWINN(3)	3.000000	0.000000
GEWINN(4)	1.000000	0.000000

Row	Slack or Surplus	Dual Price
1	28.00000	1.000000
2	3.000000	0.000000
3	0.000000	0.000000
4	0.000000	1.000000