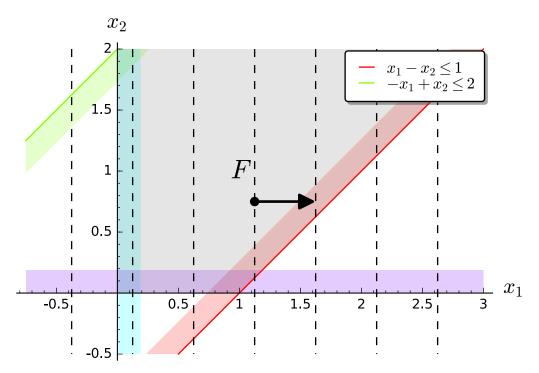
Zadanie3Lab4

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```
x_3 = 1 - x_1 + x_2
  x_4 = 2 + x_1 - x_2
   z = 0 + x_1
print D. possible_entering()
[x1]
D. enter ("x1")
print D. possible_leaving()
[x3]
D. leave ("x3")
D. update()
view(D)
  x_1 = 1 - x_3 + x_2
  x_4 = 3 - x_3
   z = 1 - x_3 + x_2
print D. possible_entering()
[x2]
D. enter ("x2")
print D. possible_leaving()
print "D jest dopuszczalne: "+ str(D.is_feasible())
print "D jest optmalne: " + str(D.is_optimal())
D jest dopuszczalne: True
D jest optmalne: False
P.run_simplex_method()
     x_3 = 1 - x_1 + x_2
```

 $\mathsf{x}_4 = 2 + \mathsf{x}_1 - \mathsf{x}_2$

 $z = 0 + x_1$

Entering: x_1 . Leaving: x_3 .

$$x_1 = 1 - x_3 + x_2$$
$$x_4 = 3 - x_3$$
$$z = 1 - x_3 + x_2$$

The problem is unbounded in x_2 direction.