

Problem 2

b)

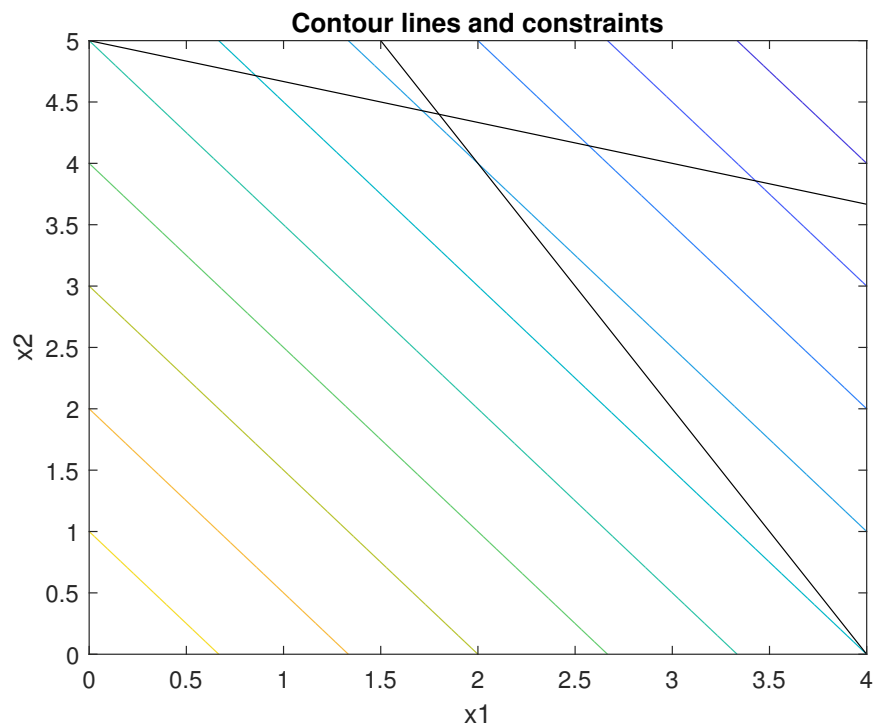


Figure 1: Contour plot with constraints

c)

Yes, the answer is at the intersection between two constraints, at the point $x = [1.8, 4.4, 0, 0]$. Since the slacking variables are at origo, all the constraints are active.

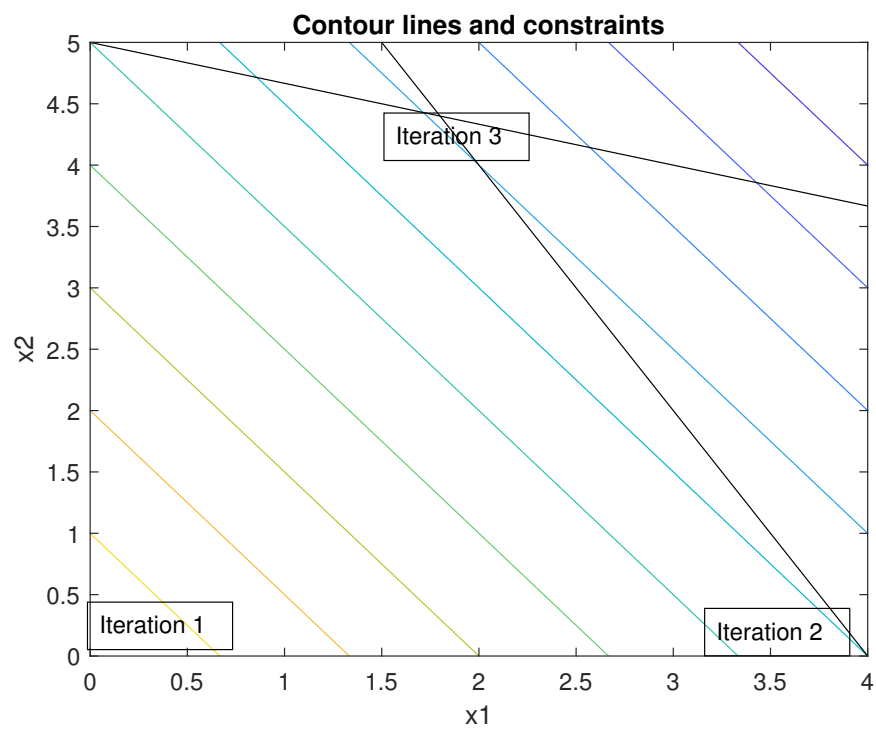


Figure 2: Marked iterations

d)

e)

Yes, everything coincides with the theory from chapter 13.3.