

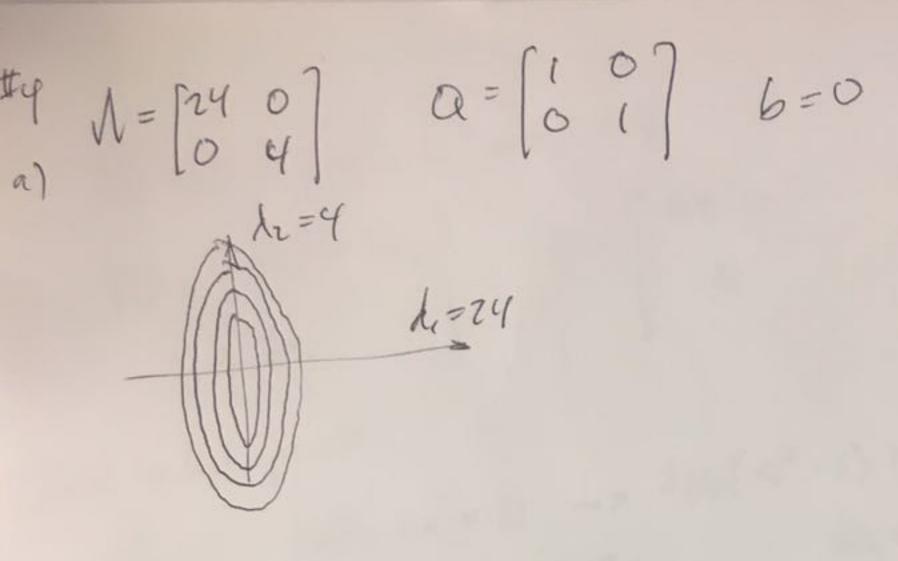
= [0] postible definite.

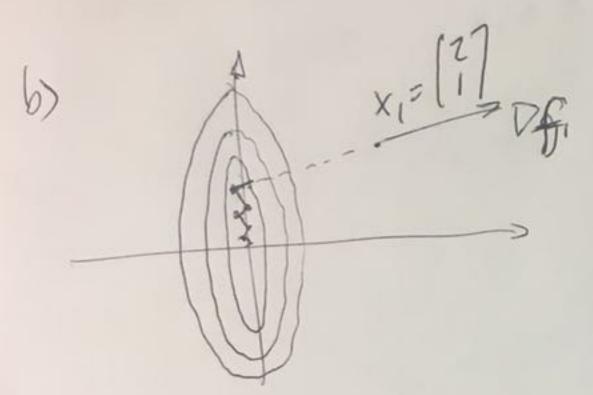
H = [4 0] 13 a (5)

local min

Xer = 10

Strong Wife conditions: (1) \$(d) = \$(0) + c, \(x \) \(\frac{1}{10} \). (2) | | | | | = - (2 | | (0) | (= - (2 | (0))) 16'(x)1 = c2/\$'(0)1 - pop(a) = \$(0) + c, a \$ "0, Interval which schopes concerne conditive but not sufficient decreese woods have (b) (c) A - \$(0) + qx \$(0) $\phi(\alpha_2) \leq \phi(0) + c, \alpha \phi'(0)$ The beckfredening method cosiks by decreasing the step site et each iteration.

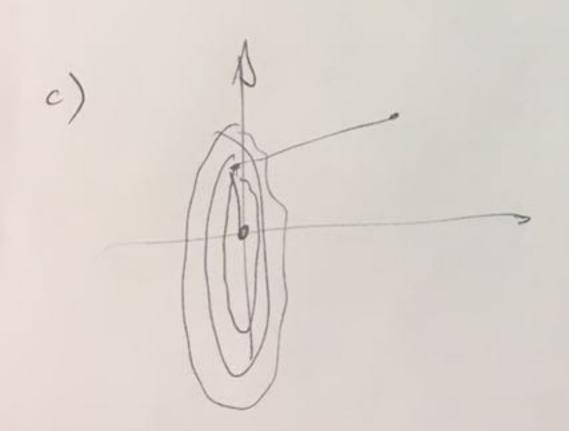




· Key points:

1) Subsequent line secrete
directions should be
perpendicular.

2) It should take was a
them I iterations.



Key prink:

1) Subsequent directions

are organiste

2) (+ should take his

l'terchous.

In the steepest descent, the search direction is I and in C.G., the search direction is conjugate, finish in h steps (in the problem 2)

1. More than 2 Steps for C.G. Not conjugate

2. Steepest descent no longer I