e)

Optimal solution:

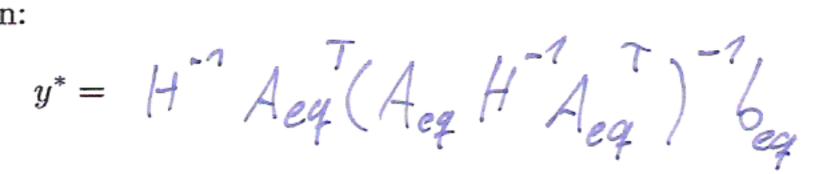$$y^* = H^{-1} A_{eq}^T (A_{eq} H^{-1} A_{eq}^T)^{-1} b_{eq}$$

f) No results have to be filled in.

g) No results have to be filled in.

h) No results have to be filled in.