

Howework 3 Problem 3  
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- a) if  $H$  is NOT positive definite, there could be no solution at all. However this is not sufficient condition.
- b) if  $H$  is NOT positive definite, there could be no finite solution. However this is not sufficient condition.
- c) there will be a single solution if  $H$  is positive definite and  $C$  has full rank.
- d) there will be a single solution if  $H$  is positive definite and  $C$  does not have full rank.