

16-748 Problem set 1

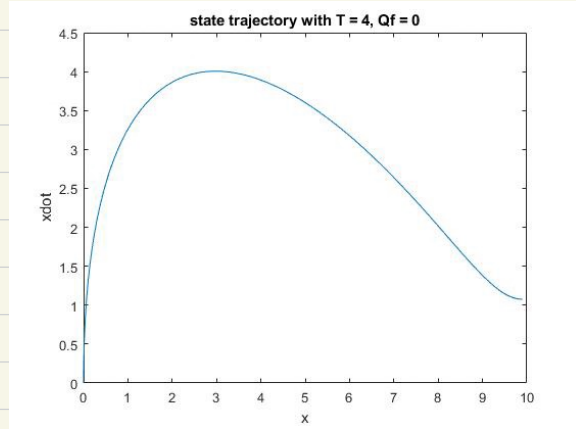
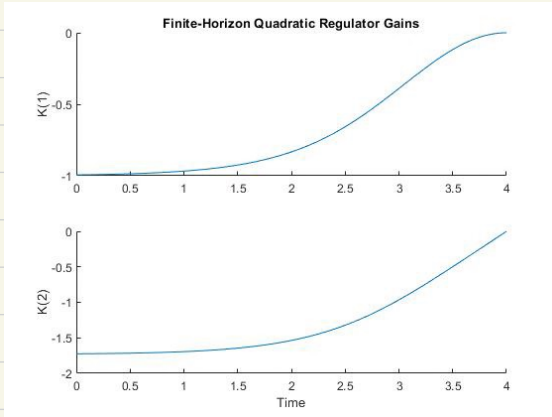
Qishun Yu

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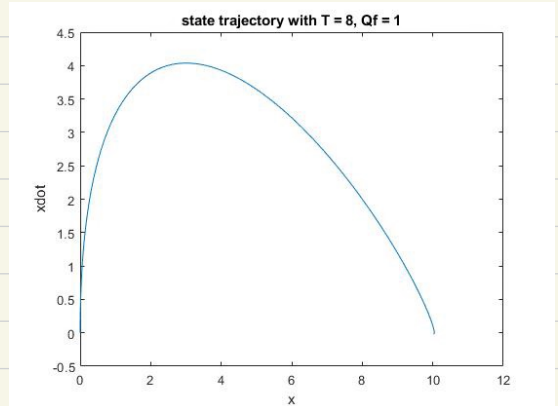
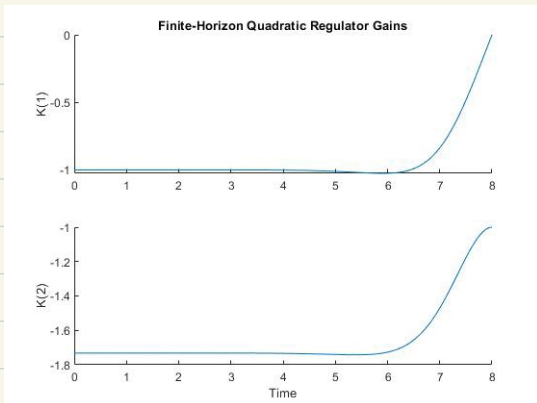
work with Huangqian Shou

Problem 1.

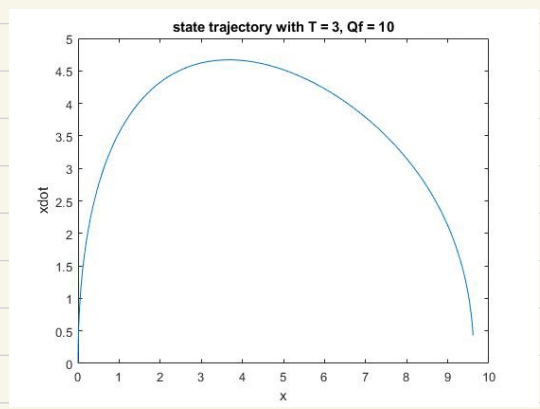
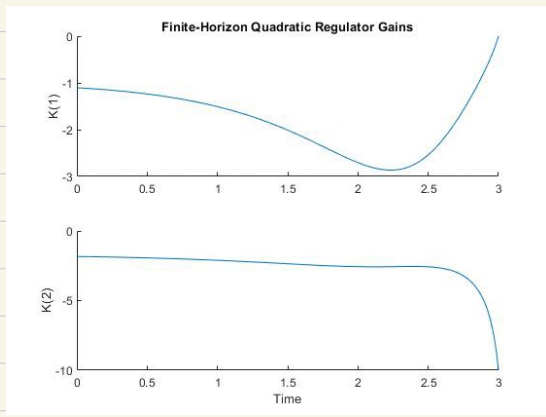
a)



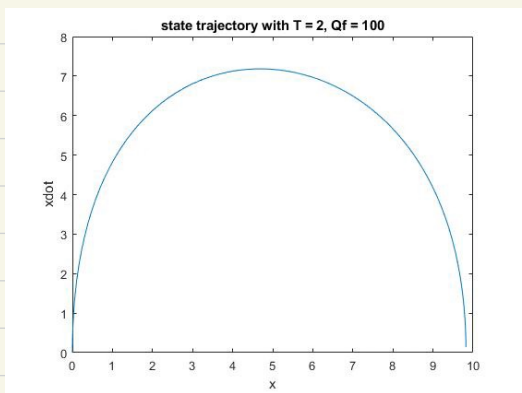
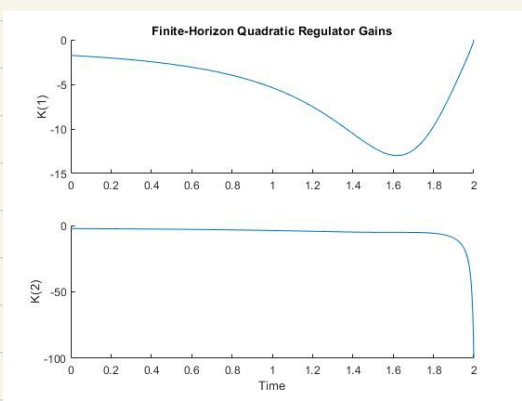
b)



C)

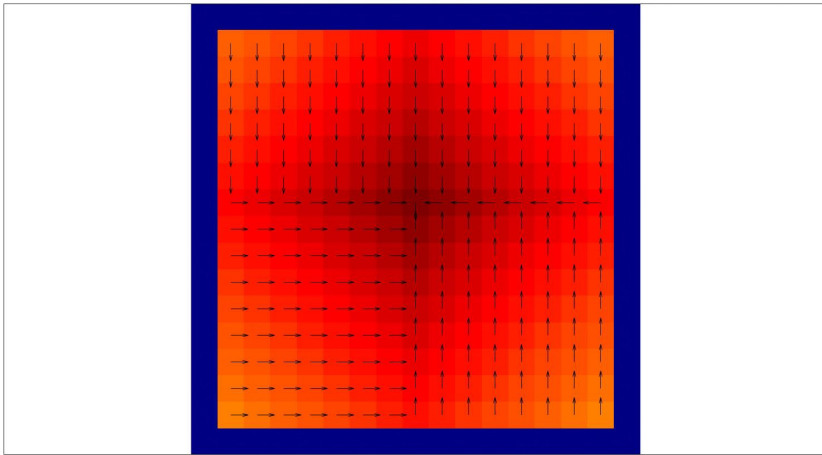


d)



c) part b) and d) reach x_d because either T is large or the Q of is large. Therefore, the control "punishes" the cost function more for not reaching x_d . Or, there are sufficient time for u to drive the system to x_d

Problem 2.



Problem 3.

