Control Engineering

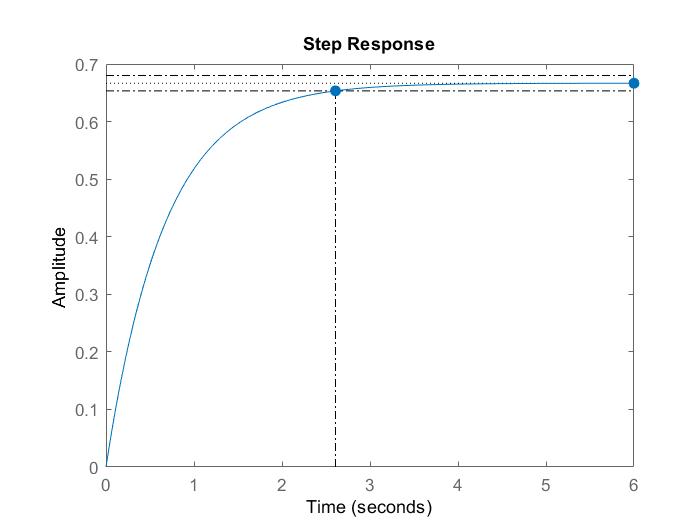
Handout – Online Laboratory 2

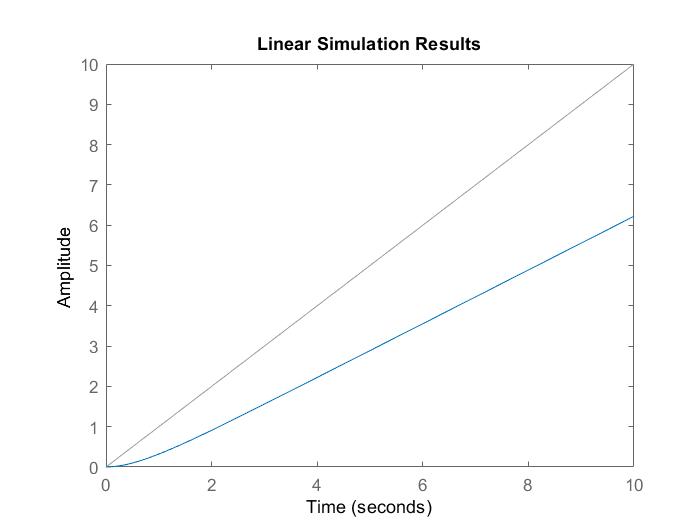
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Group: *30332*

3. PROBLEMS  
For the process described by Hf (s) = highlight the performance indicators in steady-state and transient state in both time domain and frequency domain, using Matlab. Compare and explain the results for the three different type of controller.

a) HR (s) =2

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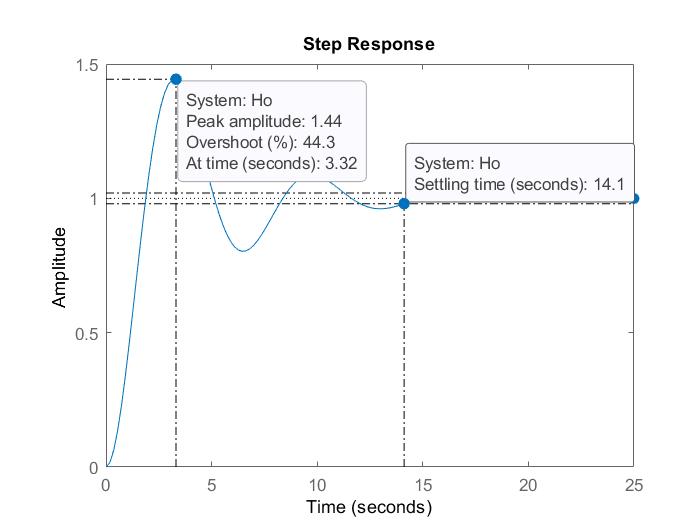
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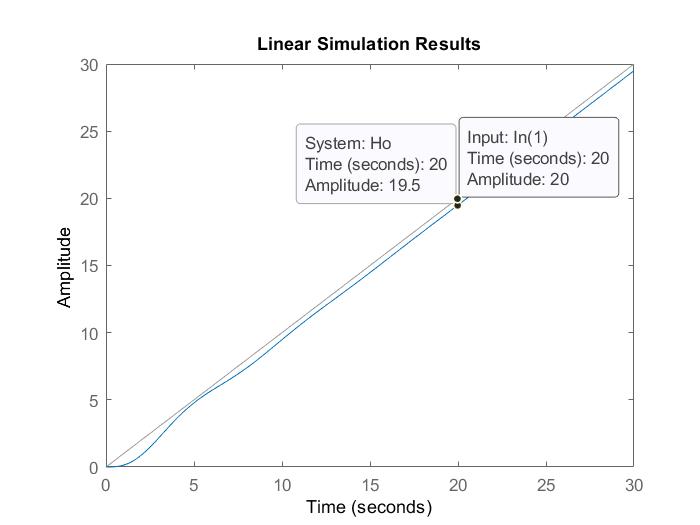
*Time domain: 1/3 infinity infinity*

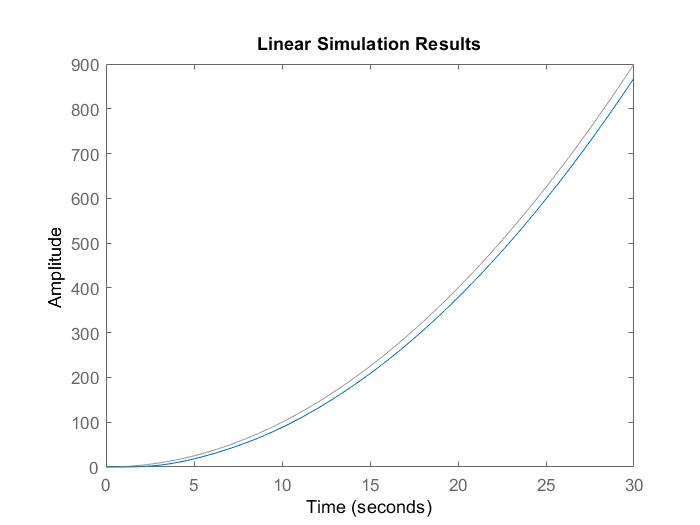
*2 0 0*

2.67 s 0 %

b) HR (s) =

**

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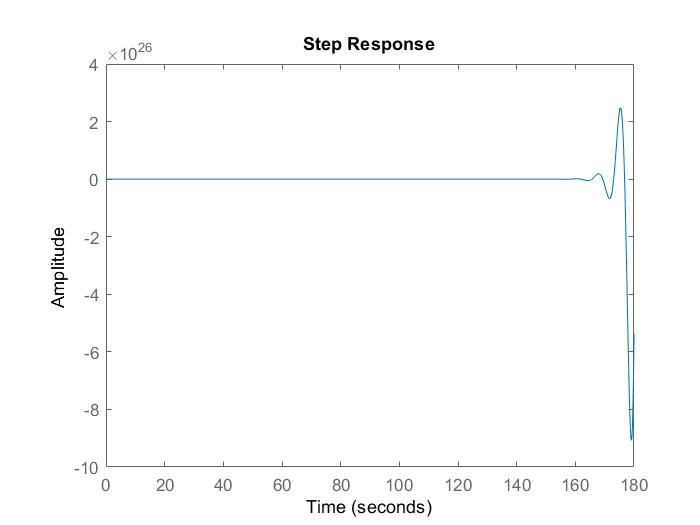
**

*Time domain: 0 0.5 infinity*

*infinity 2*

14.1 %

c) HR (s) =

**

*Unstable system*

*Time domain:*

All done? Great job 🍾🎉🎊! Upload this document along with your Matlab/Simulink files in the Assignments section of the Control Engineering I group in Teams (pay attention to select the correct Assignment!).