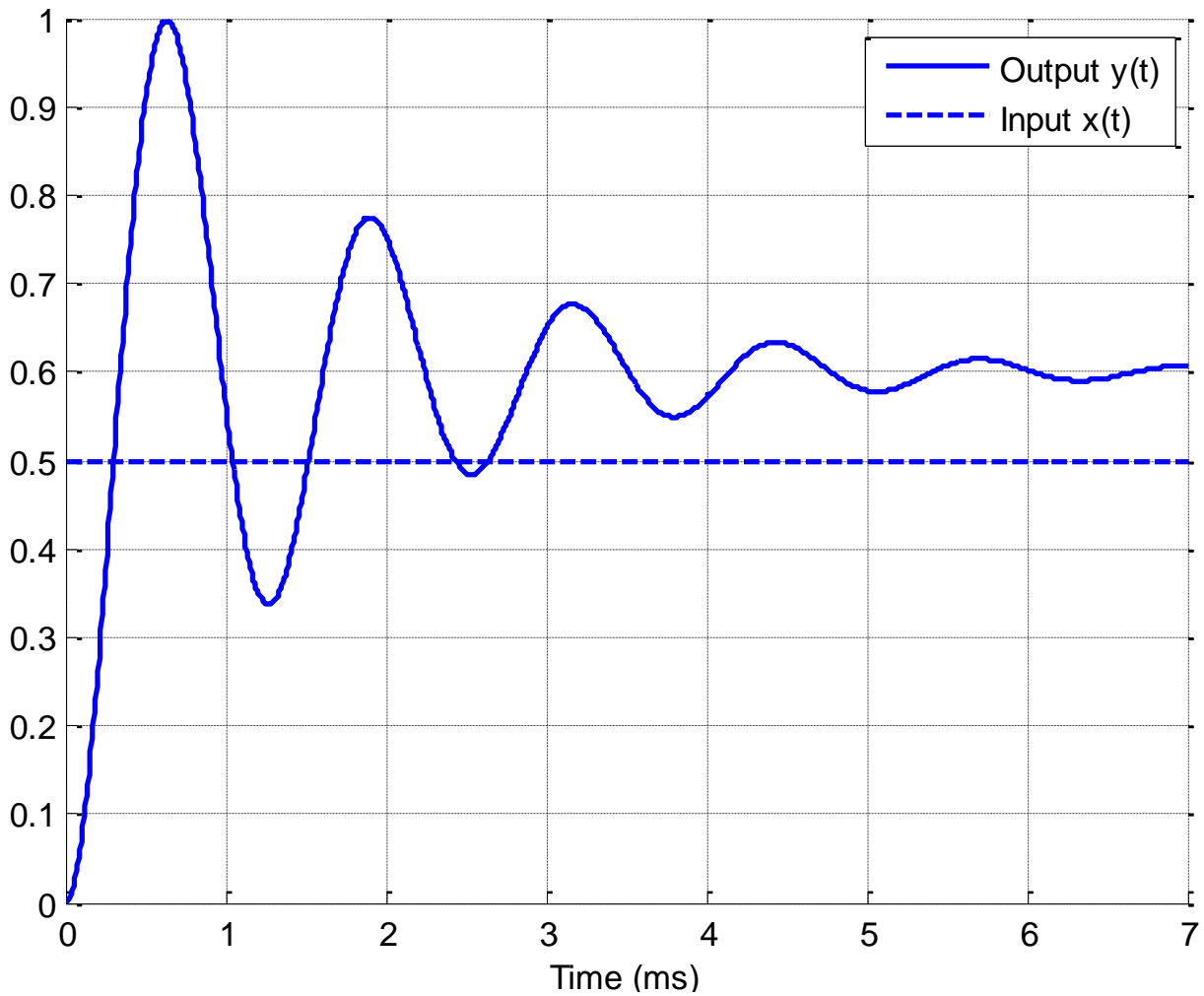


ECE-205 Quiz 3

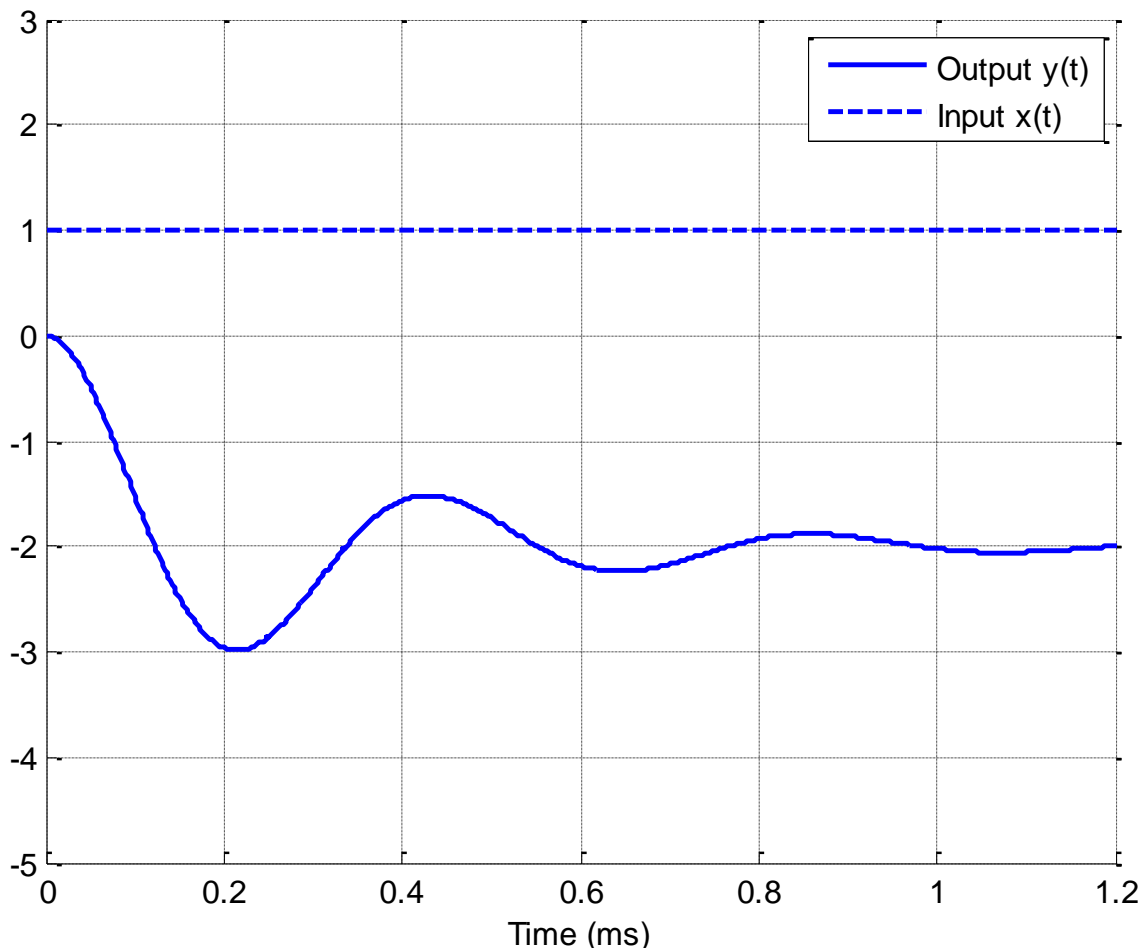
Problems 1 and 2 refer the following graph showing the response of a second order system to a step input.



1) Estimate the percent overshoot for this system.

2) Estimate the static gain for this system

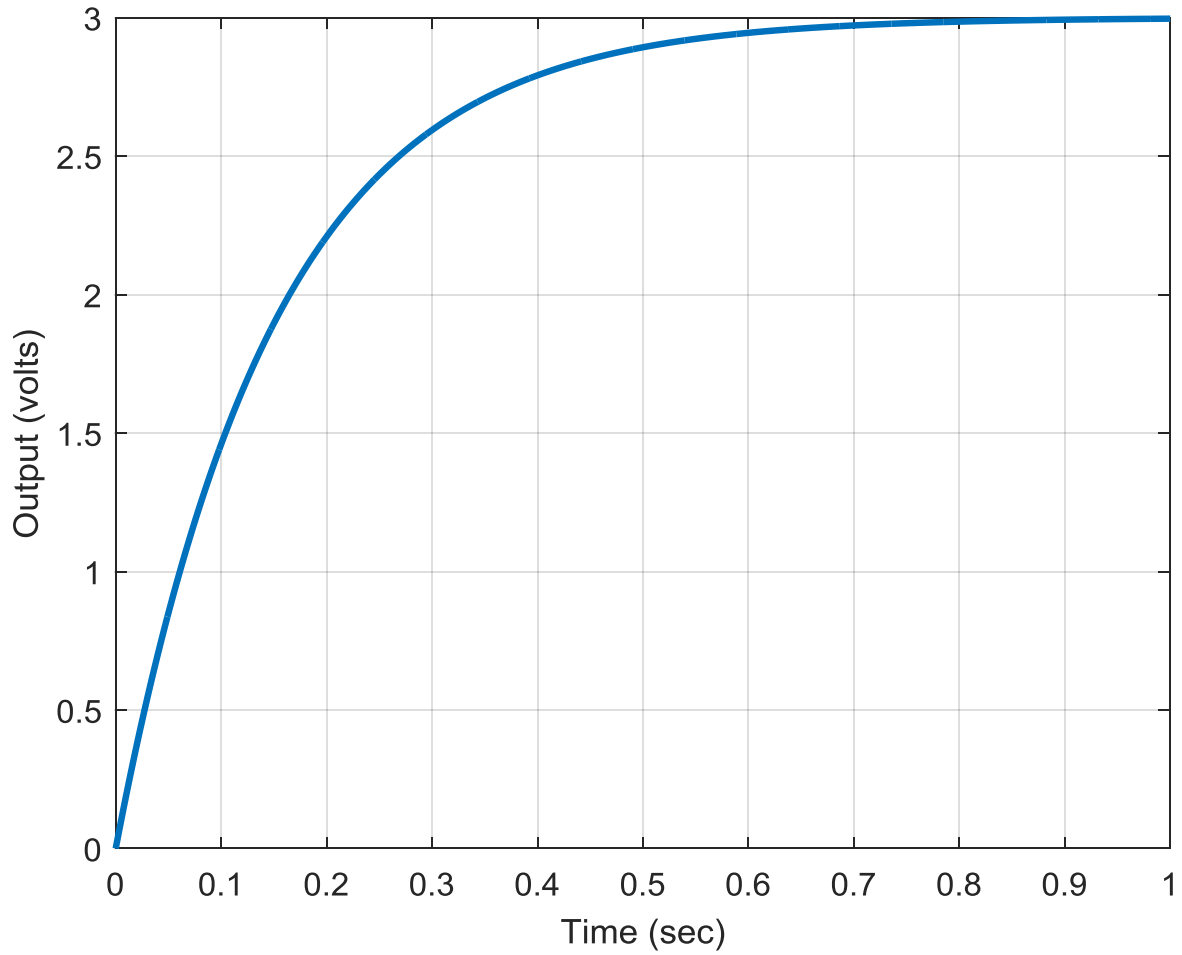
Problems 3 and 4 refer the following graph showing the response of a second order system to a step input.



3) Estimate the percent overshoot for this system.

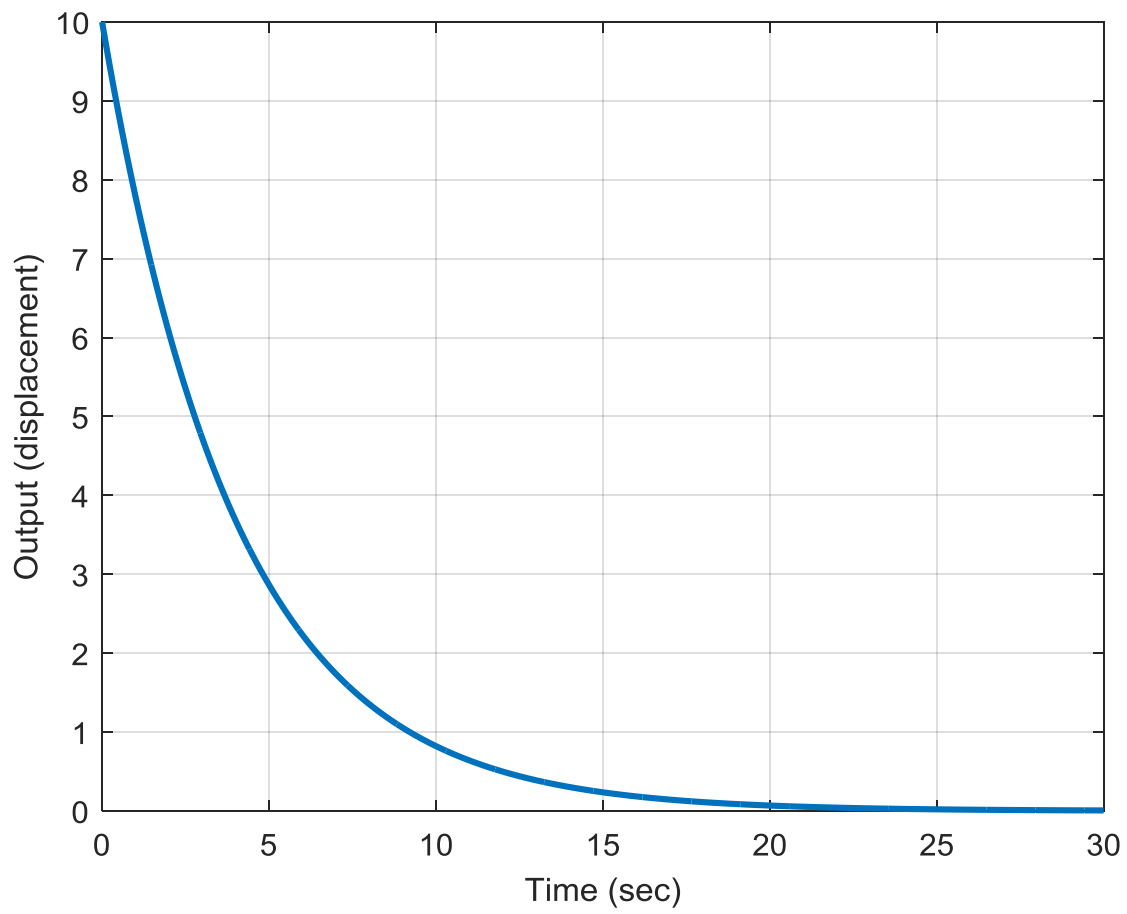
4) Estimate the static gain for this system.

5) The following figure shows a capacitor charging.



Estimate of the **time constant** for this system.

6) The following figure shows a capacitor discharging.



Estimate of the **time constant** for this system.