



The image shows a MATLAB Editor window with the following content:

```
NAVIGATE EDIT BREAKPOINTS RUN
```

gautam > Documents > MATLAB

Editor - /Users/gautam/Documents/MATLAB/exp_1a.m

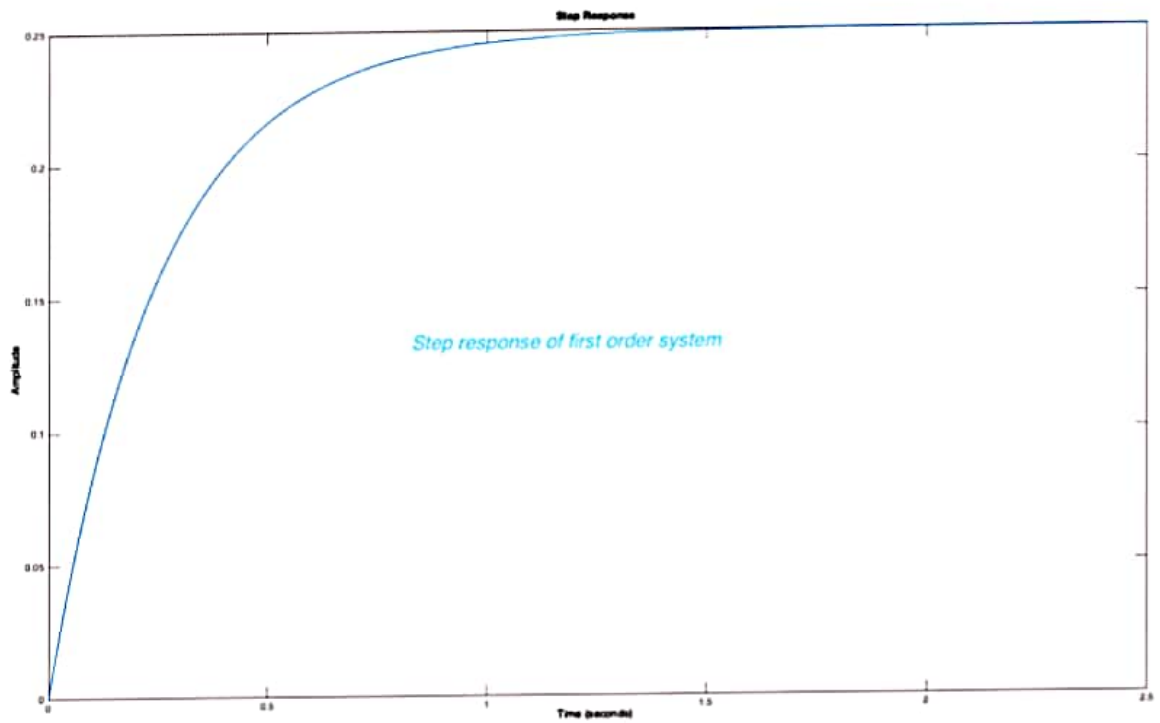
exp_1a.m x +

This file can be published to a formatted document. For more information, see the publishing [video](#) or [help](#).

```
1 %% Time Response of First Order System
2 - num=[1];
3 - den=[1 4];
4 - G=tf(num,den)
5 - figure(1);
6 - step(G)
```

code for first order step response

File Edit View Insert Tools Desktop Window Help



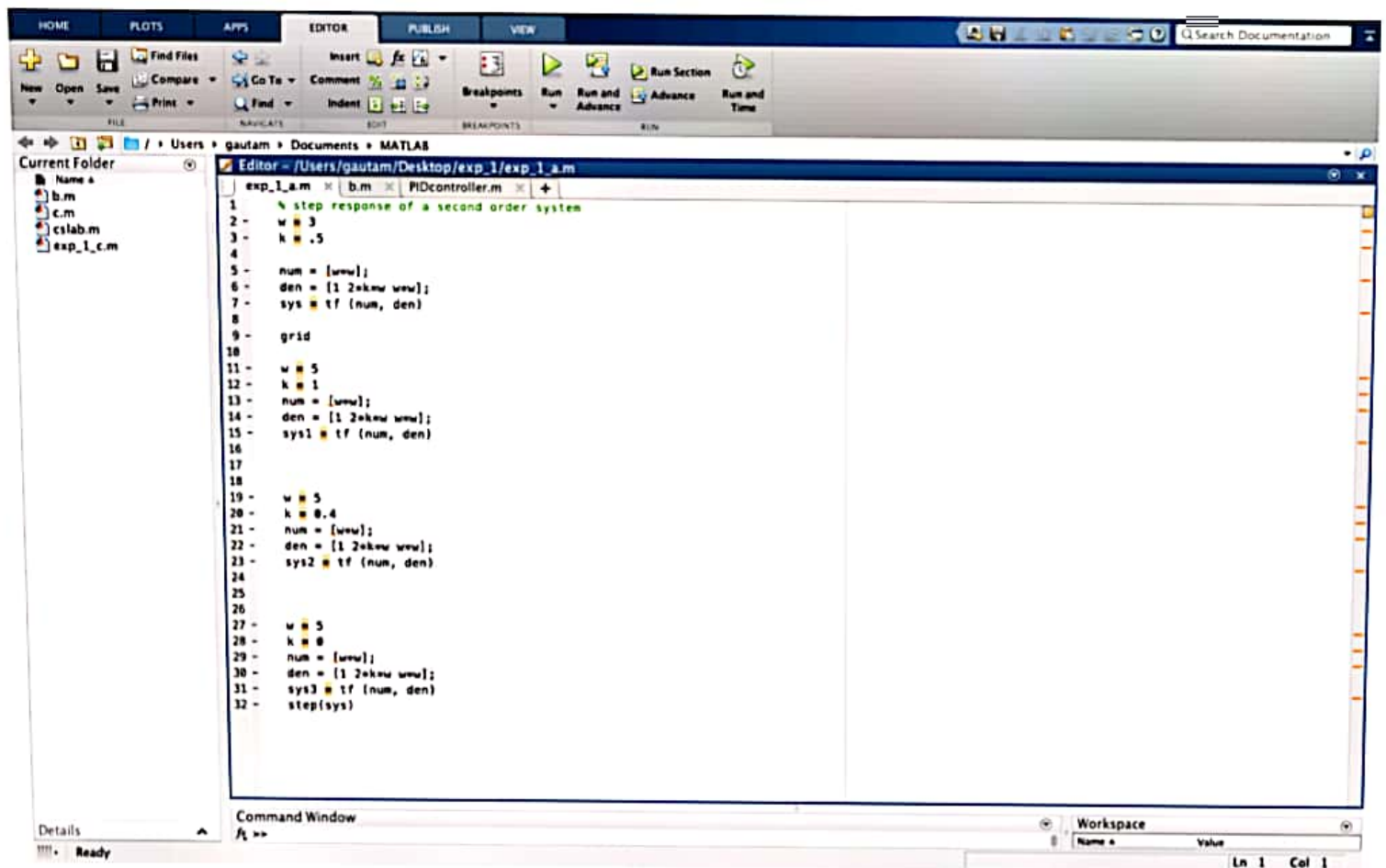
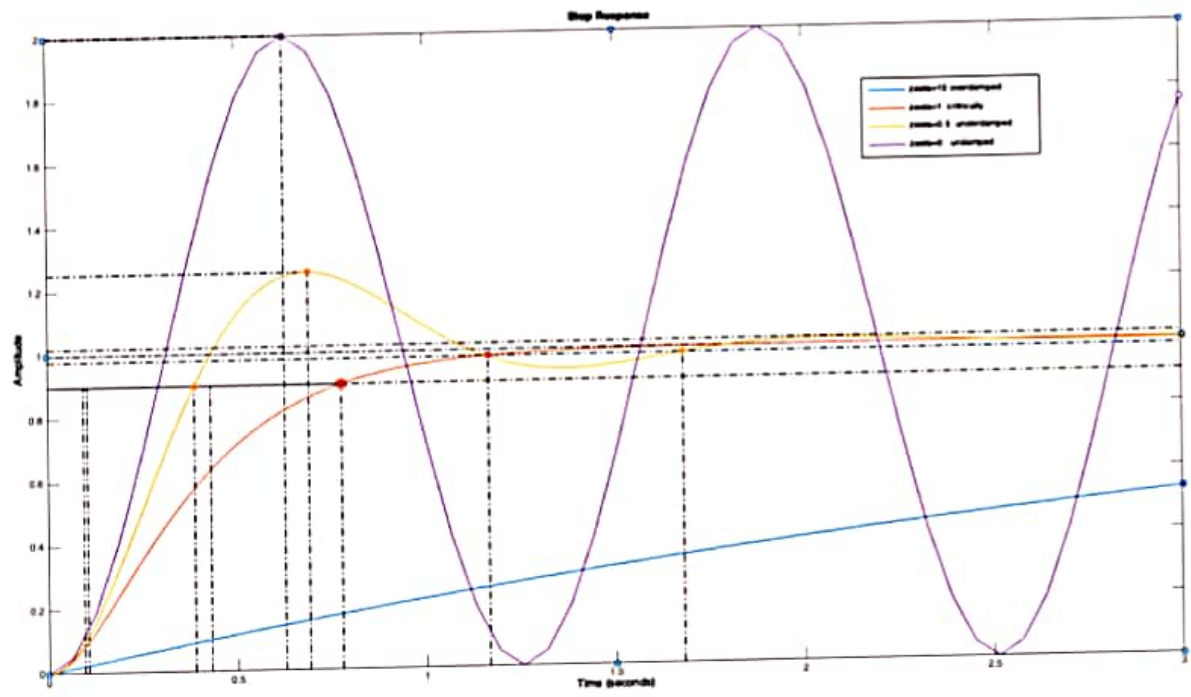
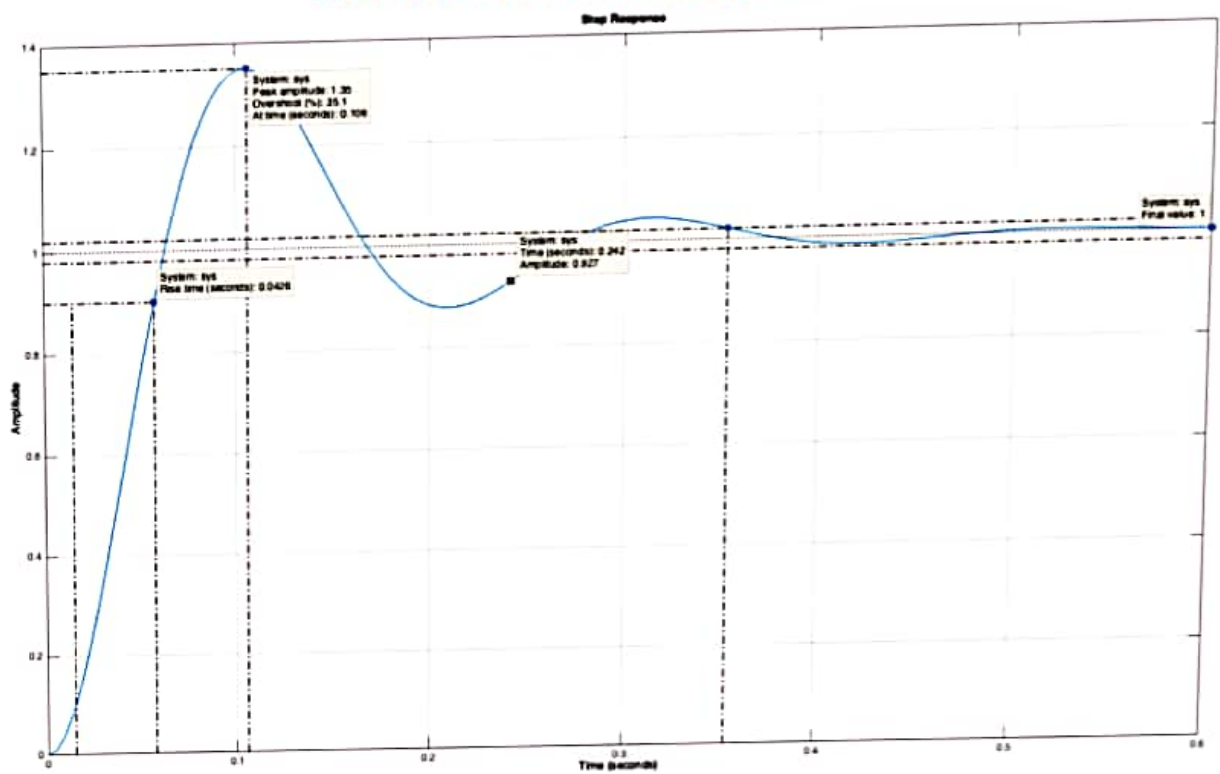


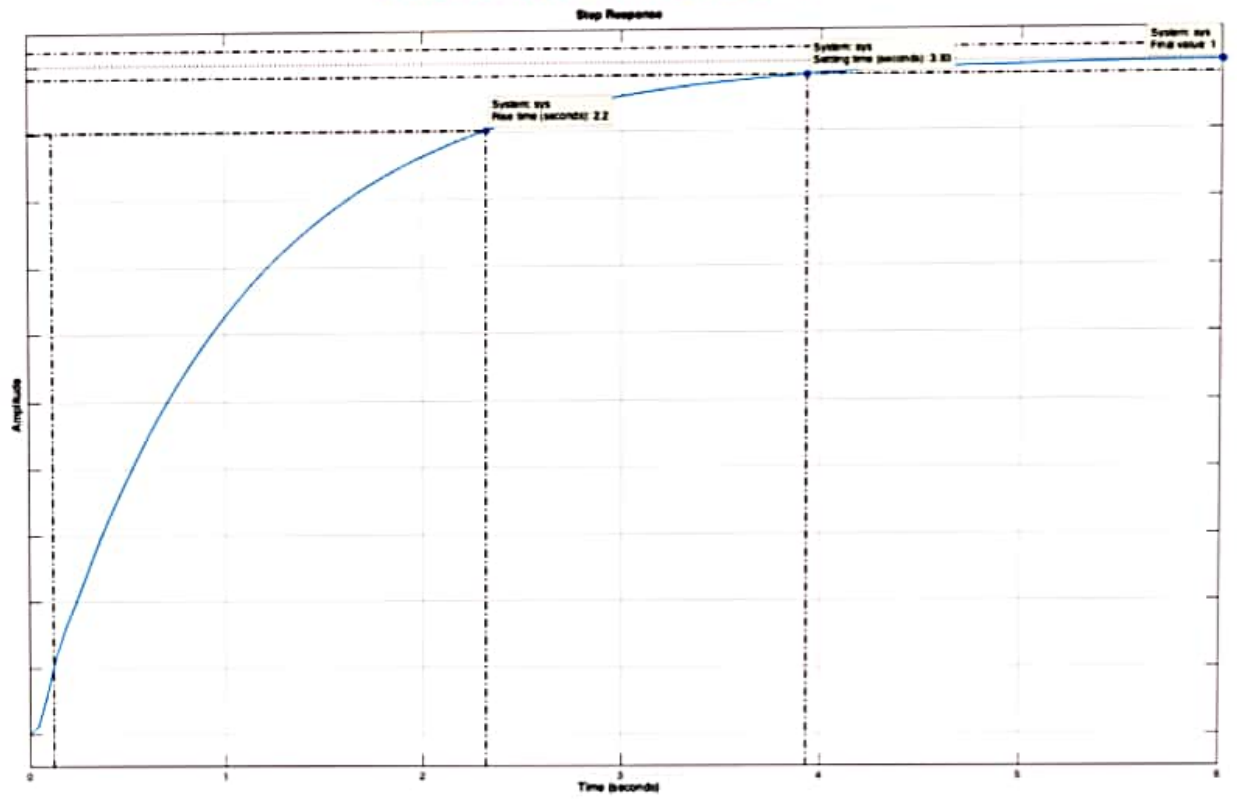
Figure 1



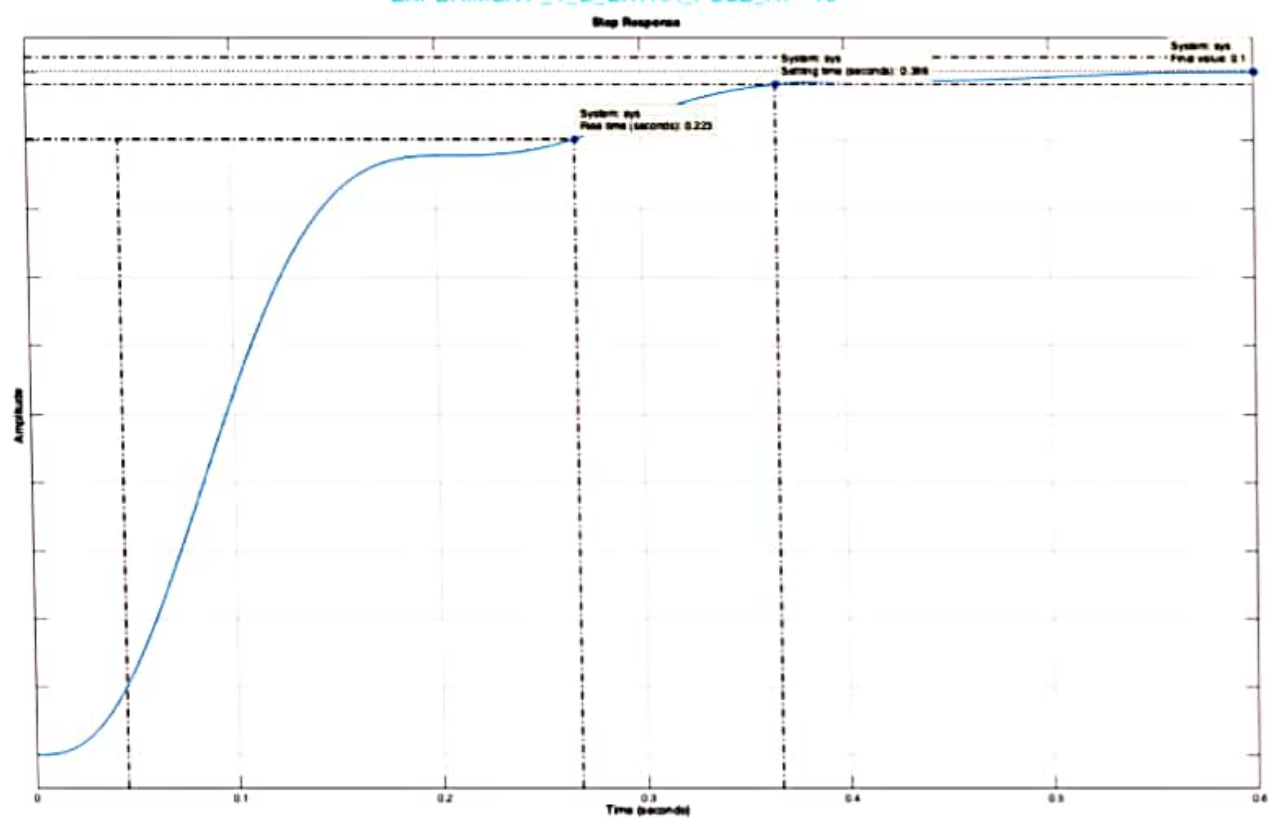
EXPERIMENT_1_B_WITHOUT ADDITION OF POLE AND ZERO



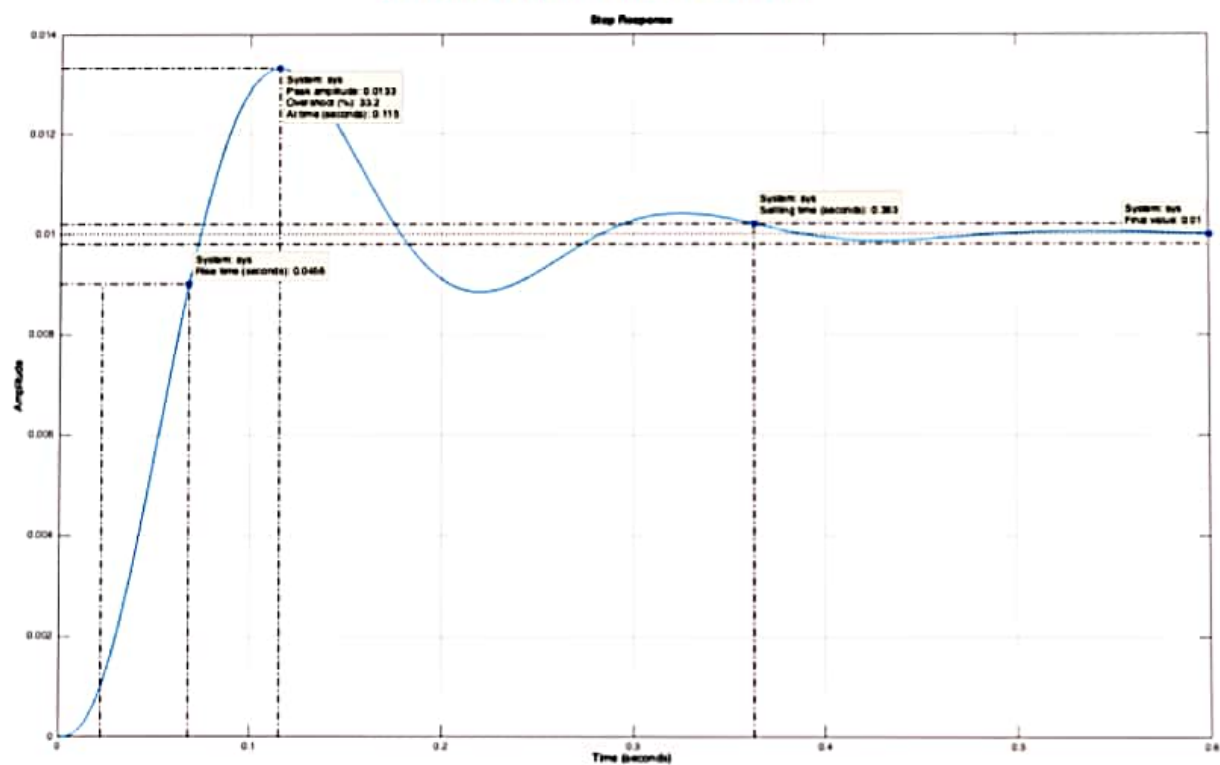
EXPERIMENT_1_B_EXTRA_POLE_AT -1



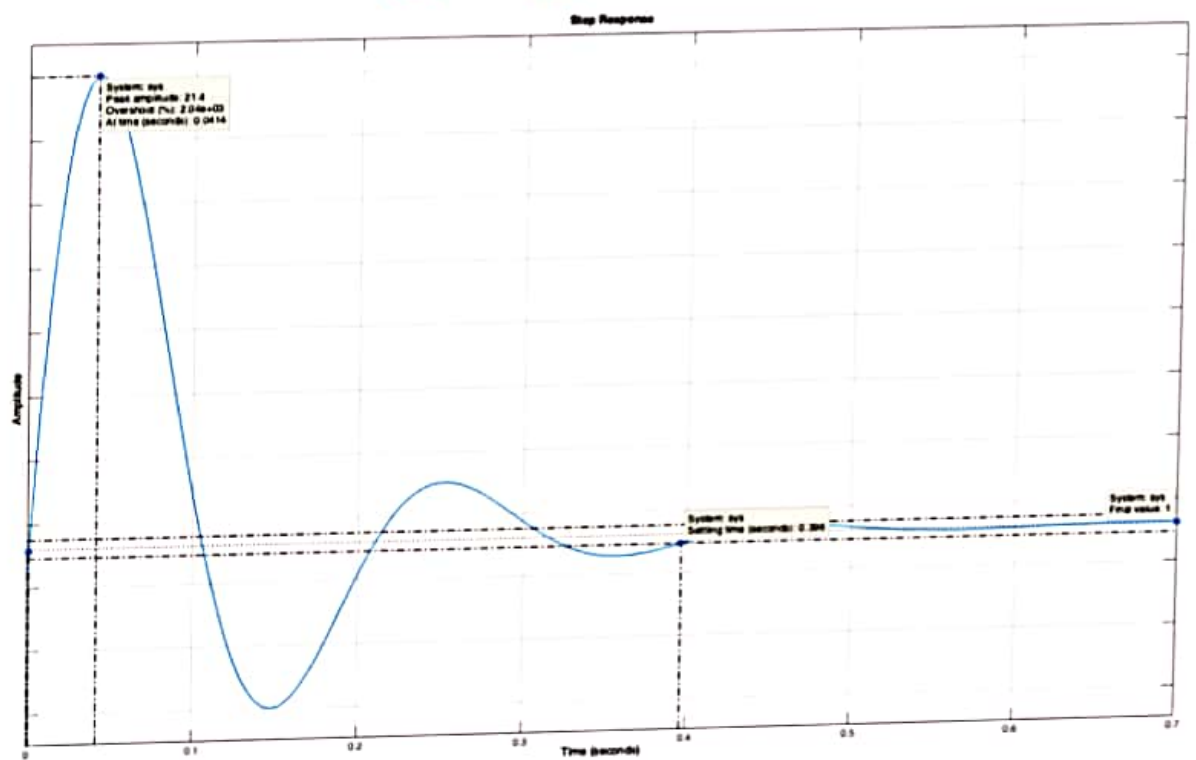
EXPERIMENT_1_B_EXTRA_POLE_AT -10



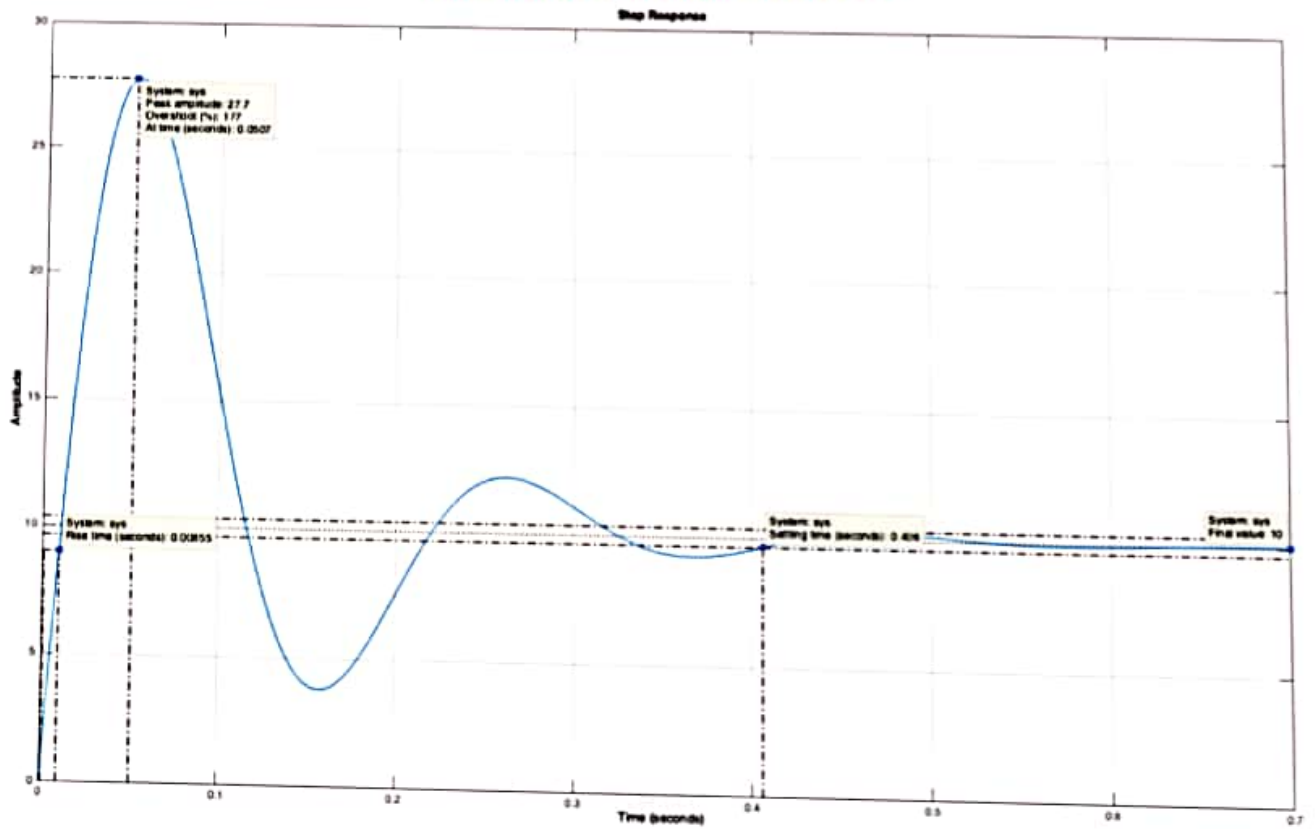
EXPERIMENT_1_B_EXTRA_POLE_AT -100



EXPERIMENT_1_B_EXTRA_ZERO_AT -1



EXPERIMENT_1_B_EXTRA_ZERO_AT -10



EXPERIMENT_1_B_EXTRA_ZERO_AT -100

