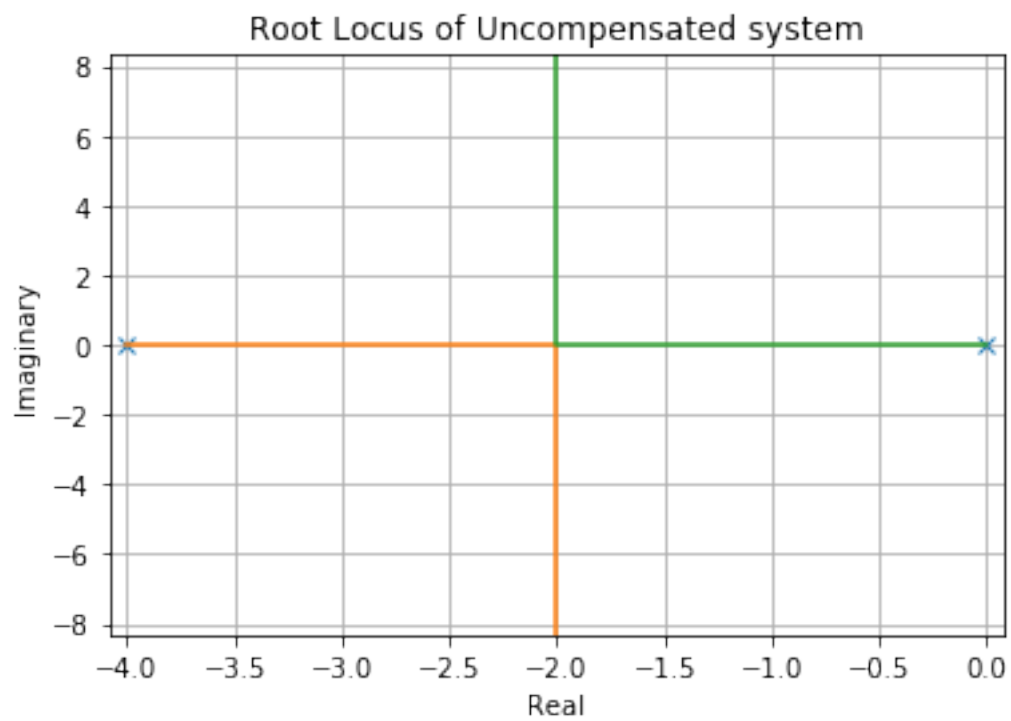


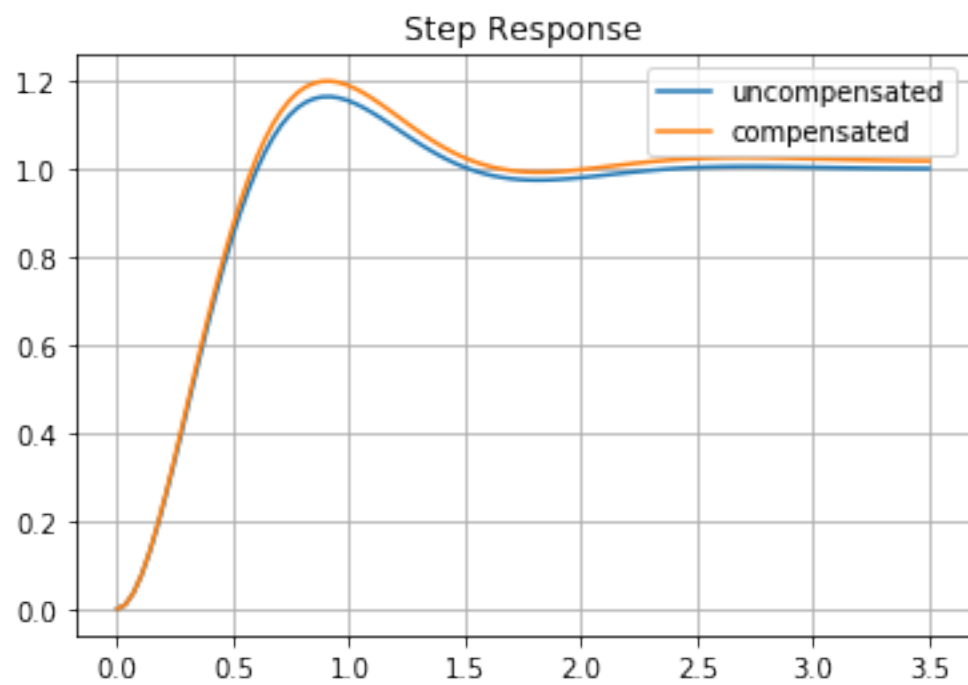
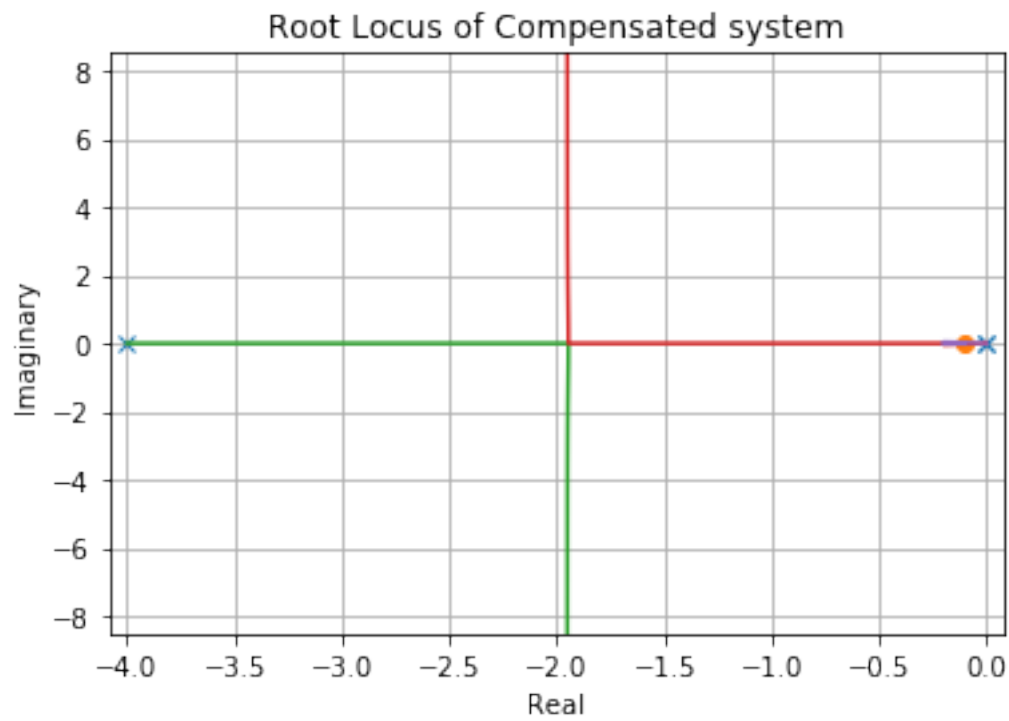
Plots for Assignment8

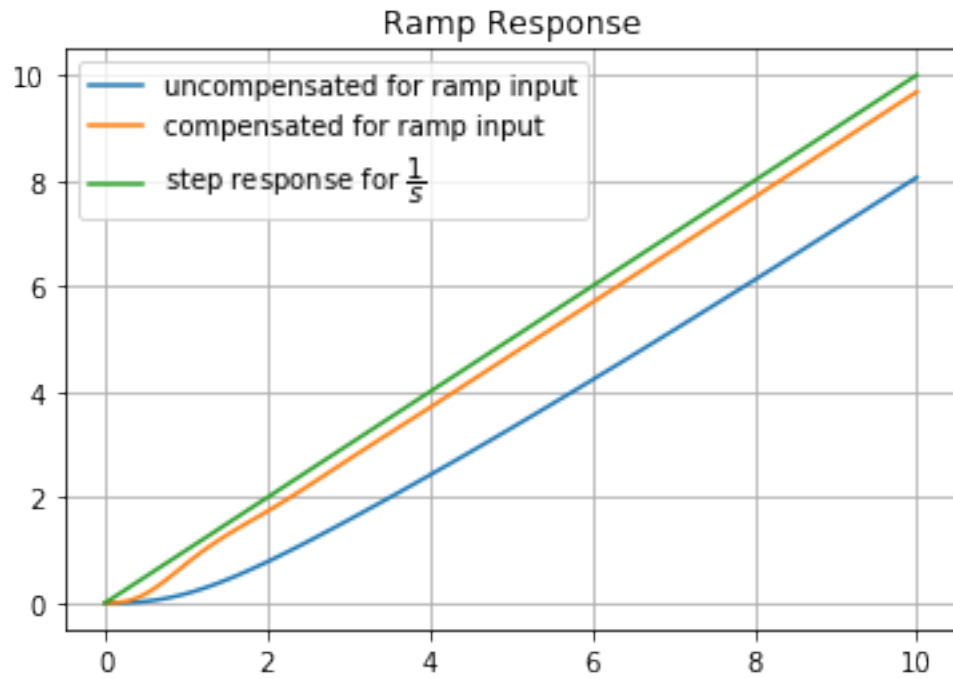
Siddharth Nayak EE16B073

19th October 2018

0.1 Question 6



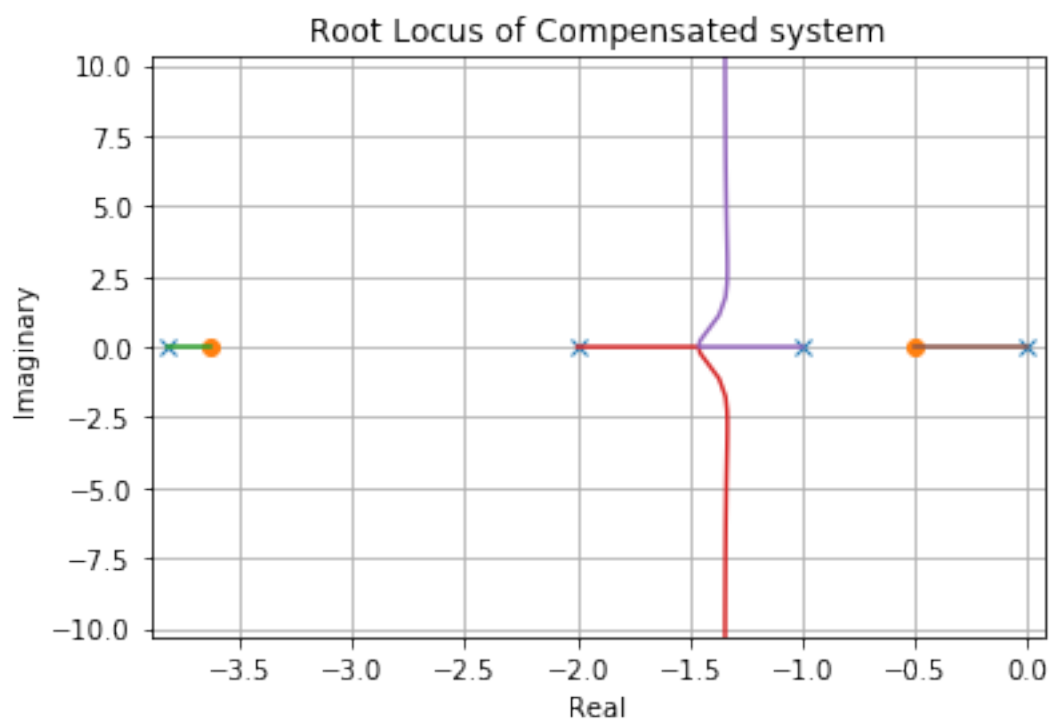
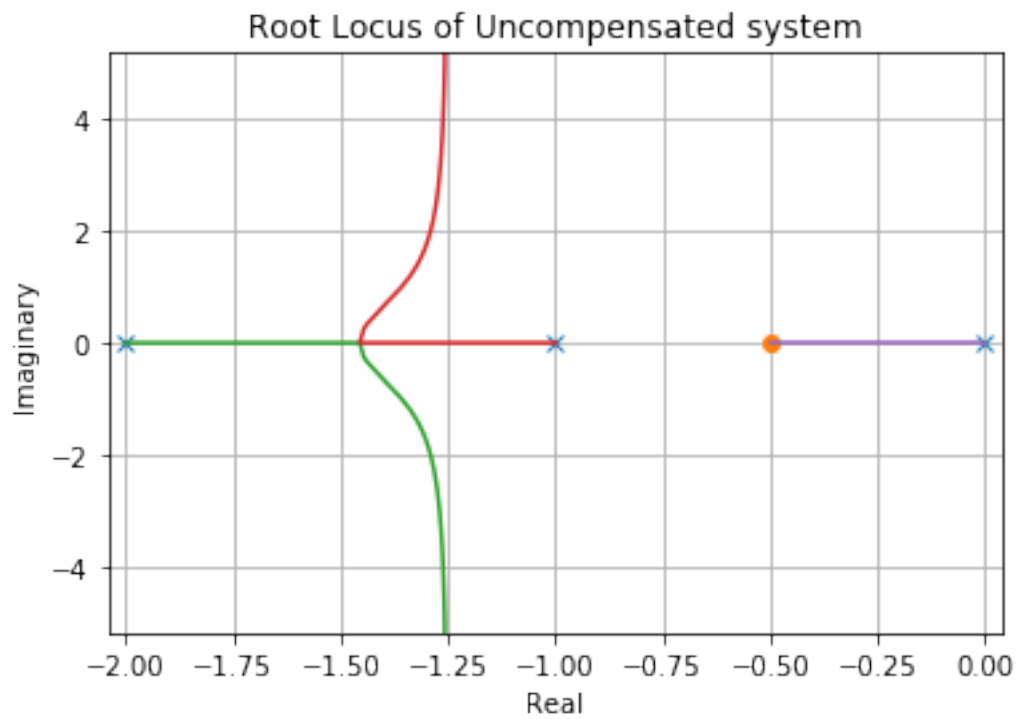


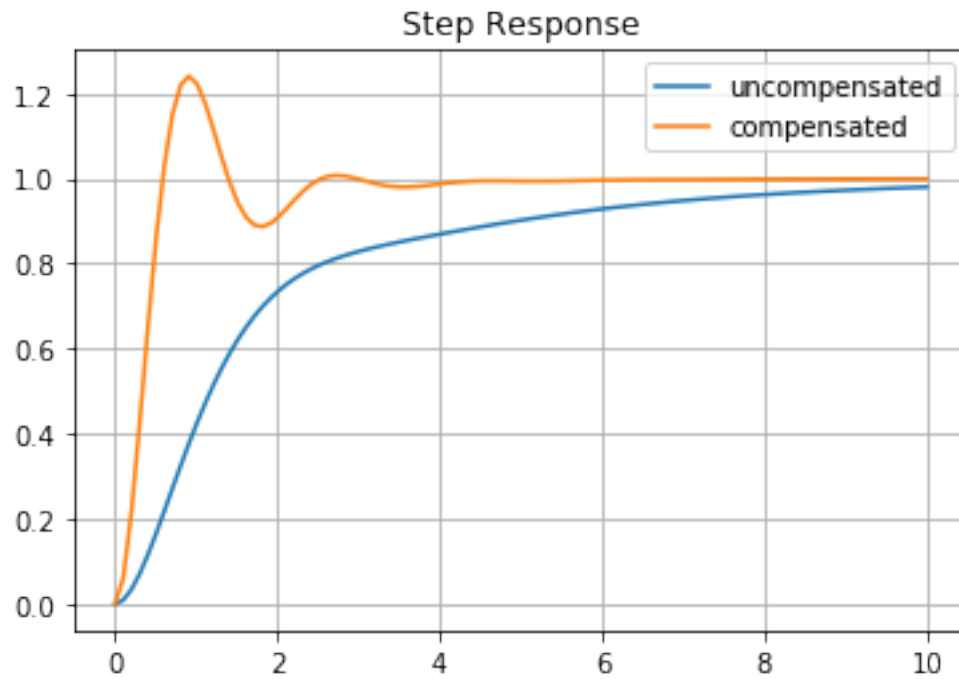


Residues and poles:

```
(array([-0.00262429+0.j ,  0.00131215-2.33826727j,0.00131215+2.33826727j]),
 array([-0.10249731+0.j, -1.94937635+3.46430781j,-1.94937635-3.46430781j]))
```

0.2 Question 4



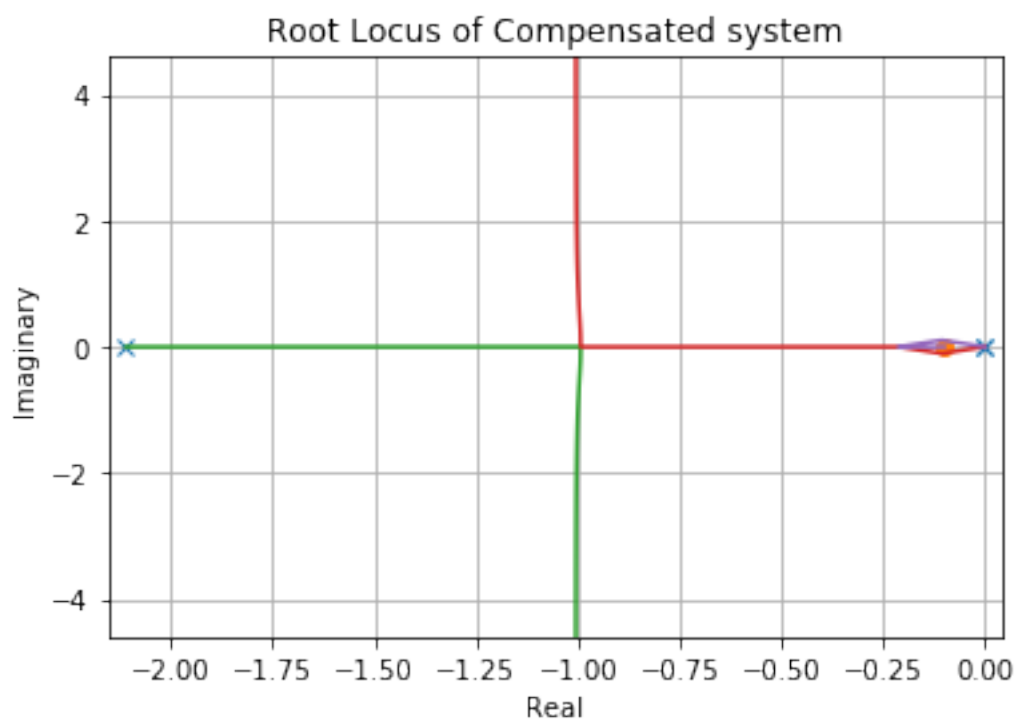
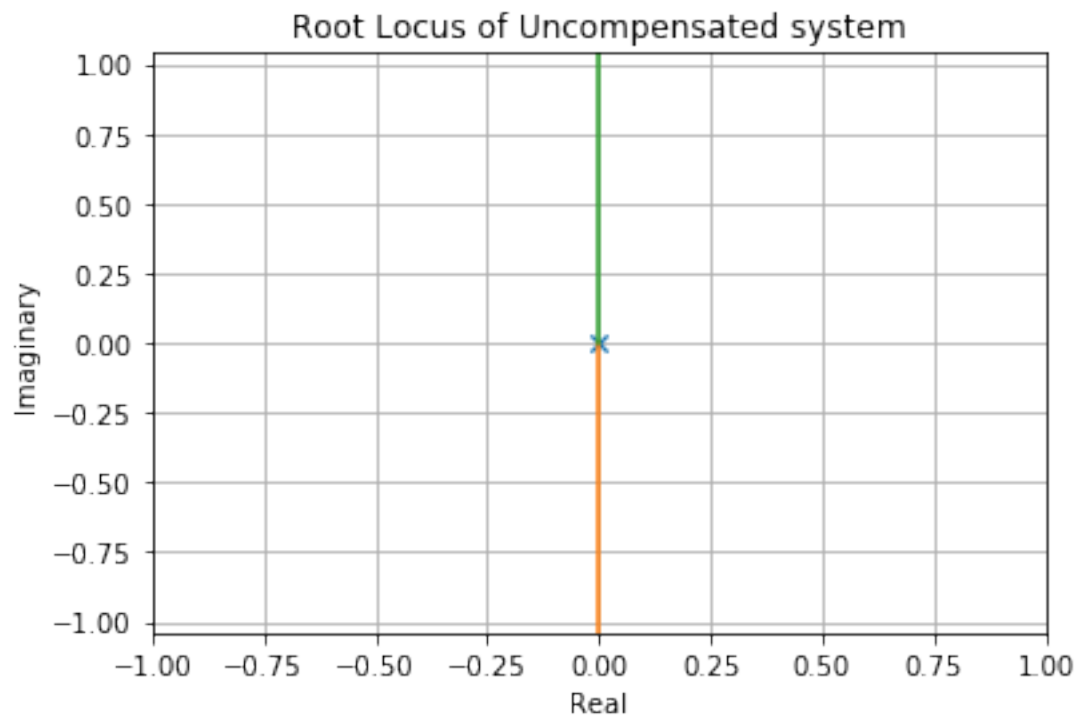


Settling Time is 2.424242
 Percentage Overshoot is 24.080751

Residues and poles:

(array([0.03091976+0.j , -0.04004500+0.j ,0.00456262-1.88358441j, 0.00456262+1.88358441j]),
 array([-0.46944875+0.j, -3.68599231+0.j,-1.33333333+3.47914022j, -1.33333333-3.47914022j])),

0.3 Question 2



Residues and Poles: (array([-0.01379310+0.j, 0.00689655-1.11724138j, 0.00689655+1.11724138j]),
array([-0.11111111+0.j, -1.00000000+1.j, -1.00000000-1.j]))