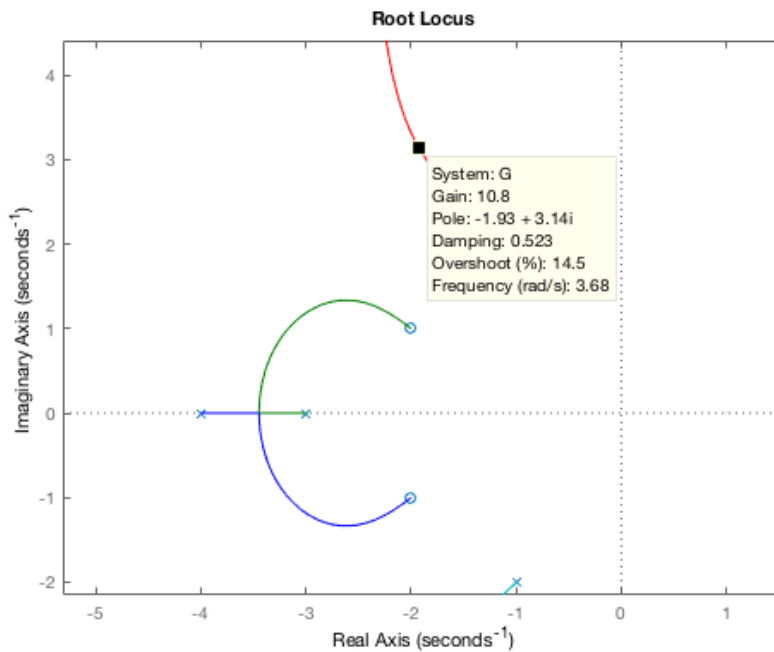


Problem 34 a: Root locus at approx  $-2 \pm j\pi$  shows a gain of 10.8

```
% numg = [1 4 5];  
numg = 11 * [1 4 5];  
deng = conv([1 2 5],  
poly([-3 -4]));  
G = tf(numg,deng);  
T = feedback(G,1);  
% rlocus(G)  
% axis equal  
step(T)
```

Problem 34 b: Step Response decreases from 1 second to 0.8 seconds

