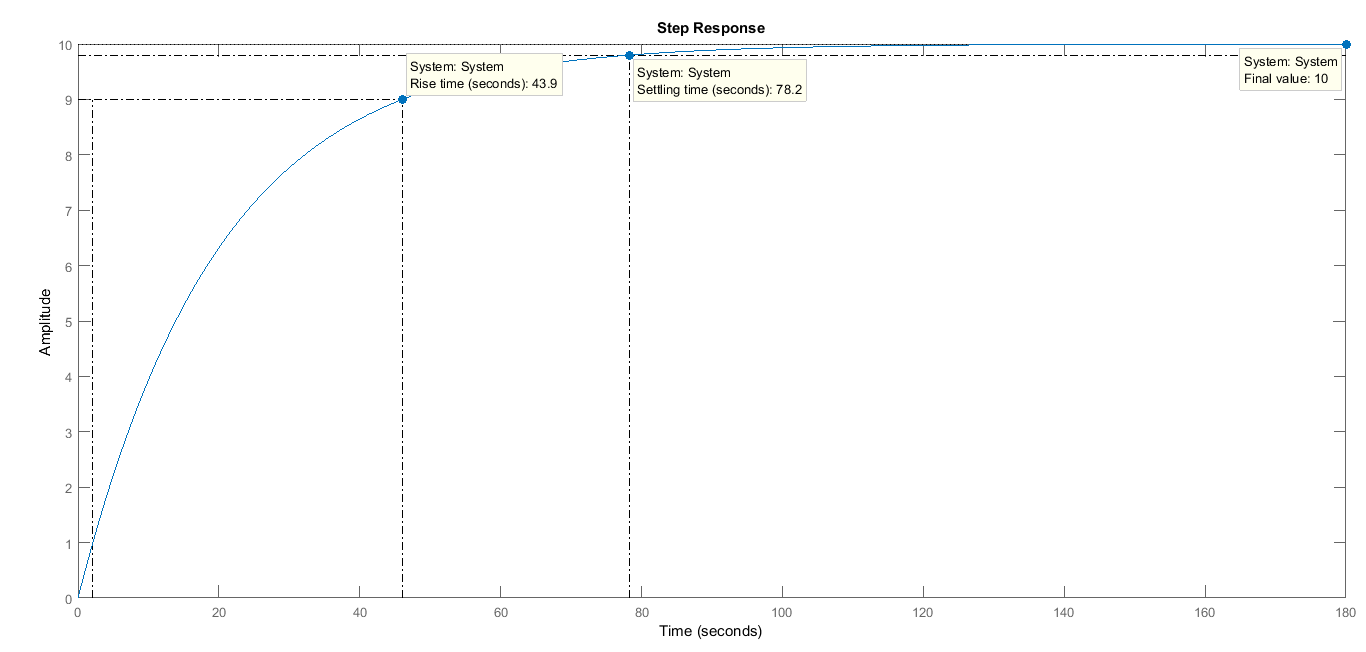
# Exercise 3 - In-Lab Task 1

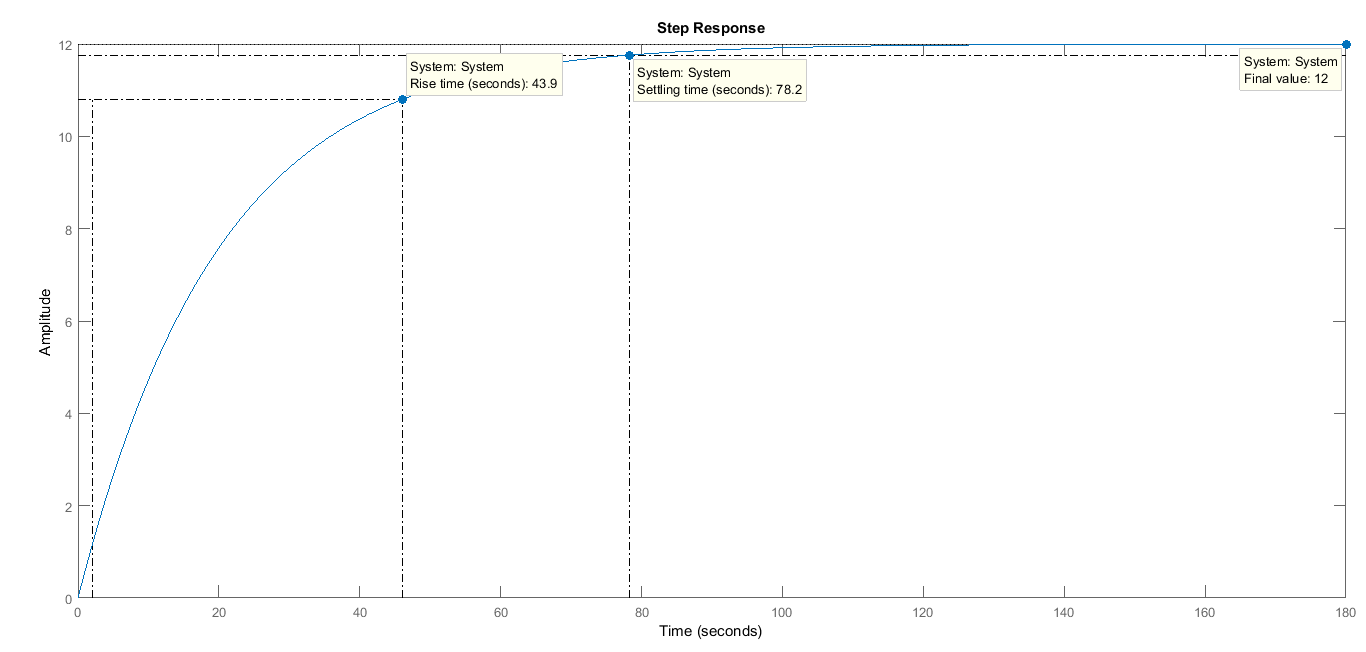
## First Order Systems

### First Order Mechanical System



Step Response

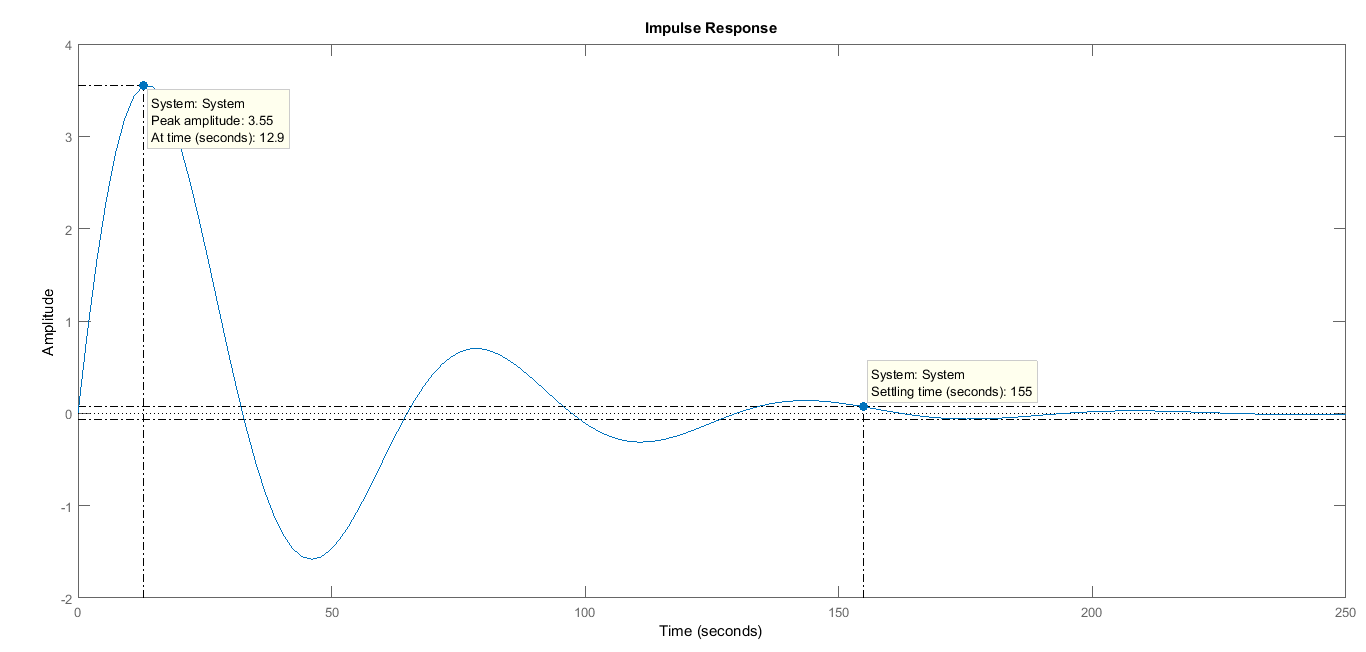
### First Order Electrical System



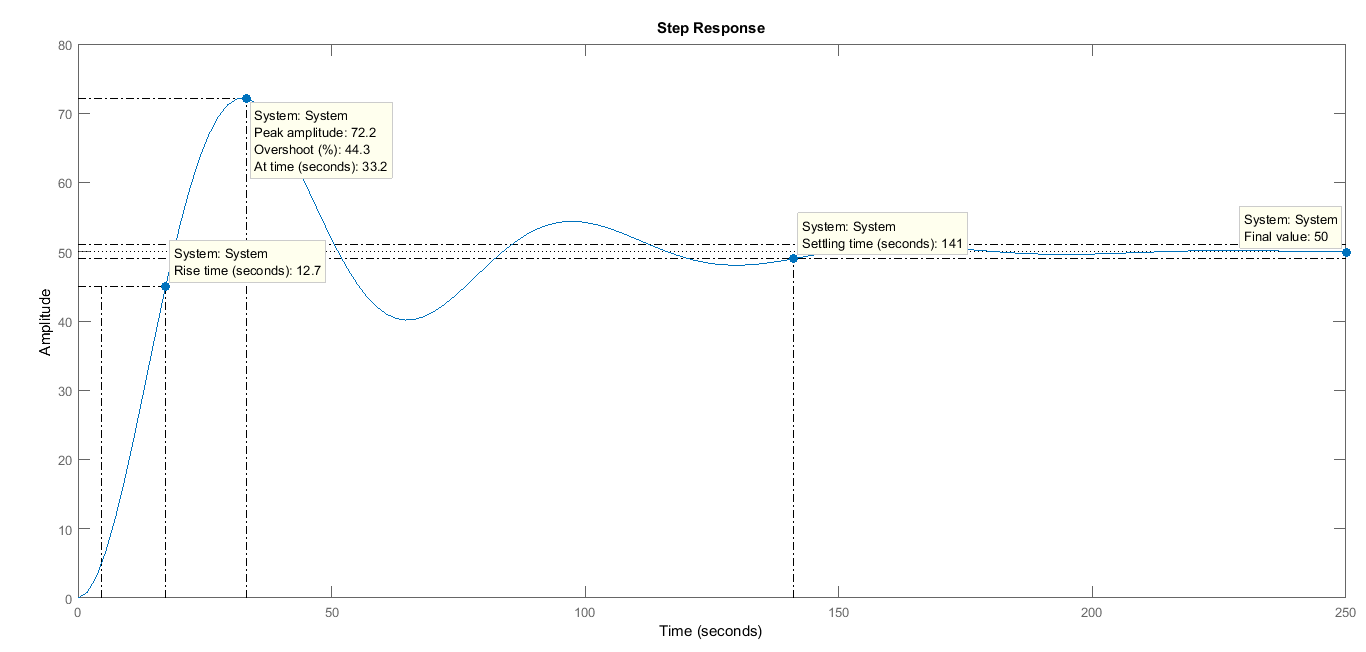
Step Response

## Second Order Systems

### Second Order Mechanical System

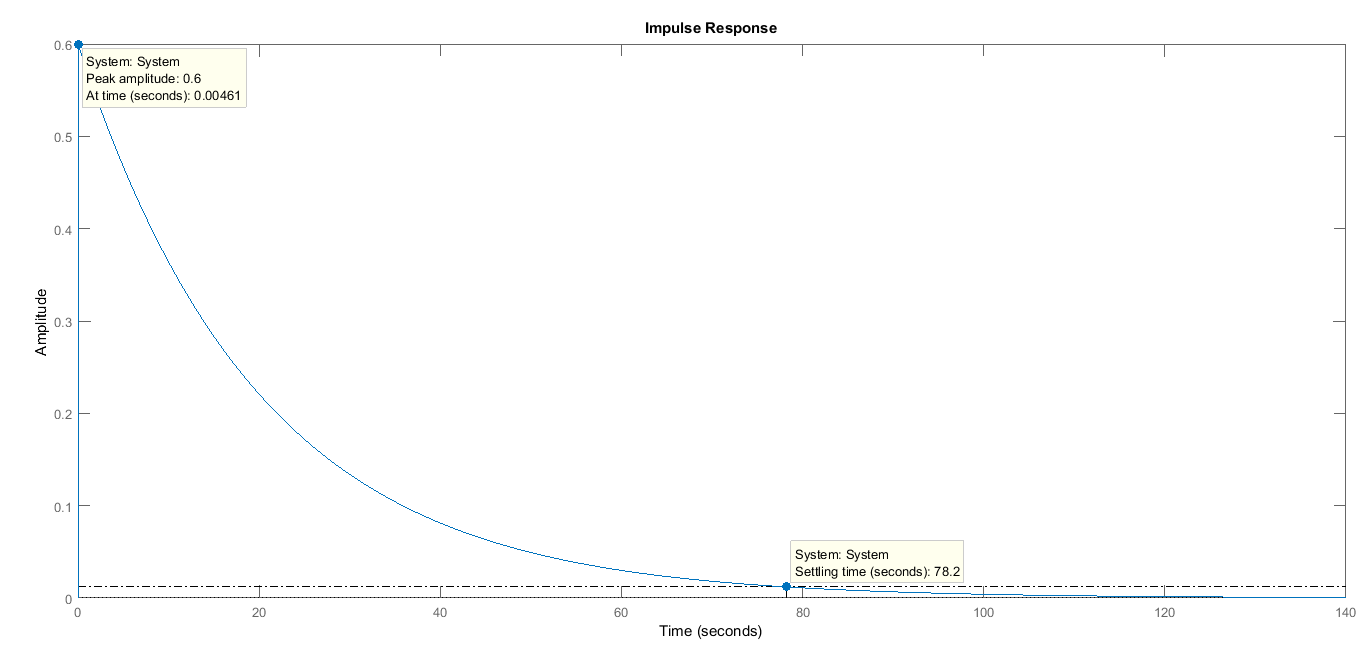


Impulse Response

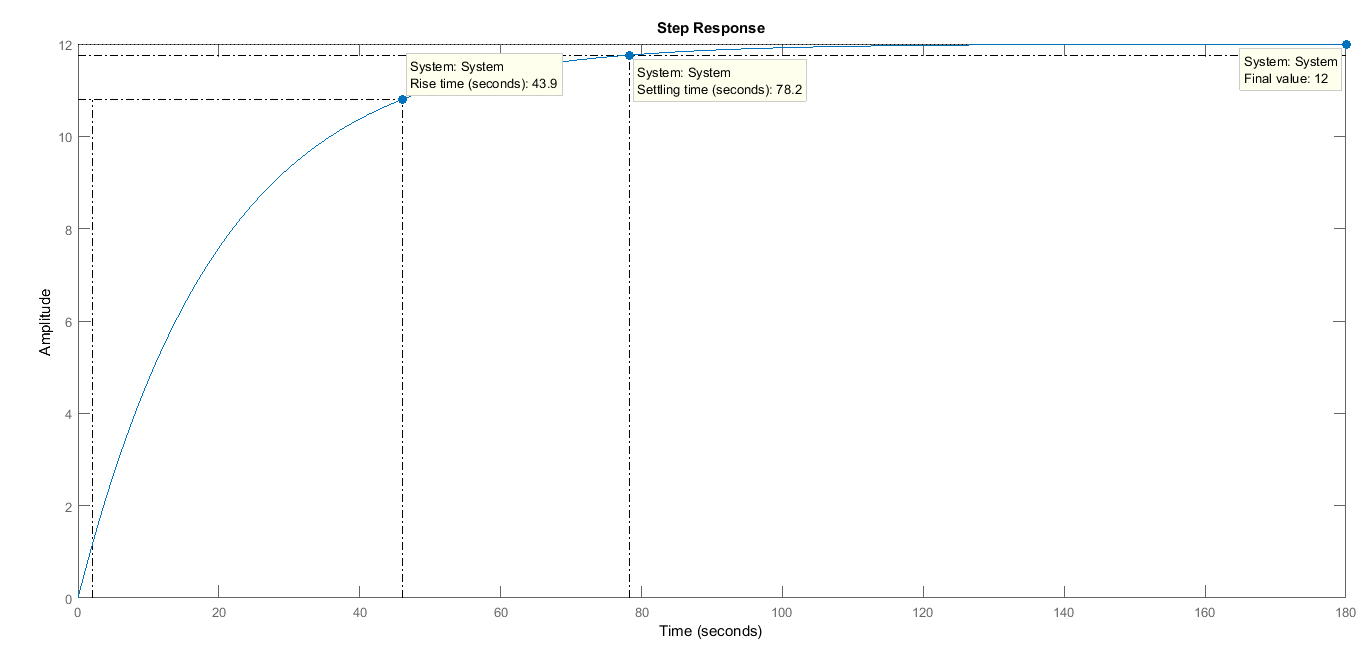


Step Response

### Second Order Electrical System

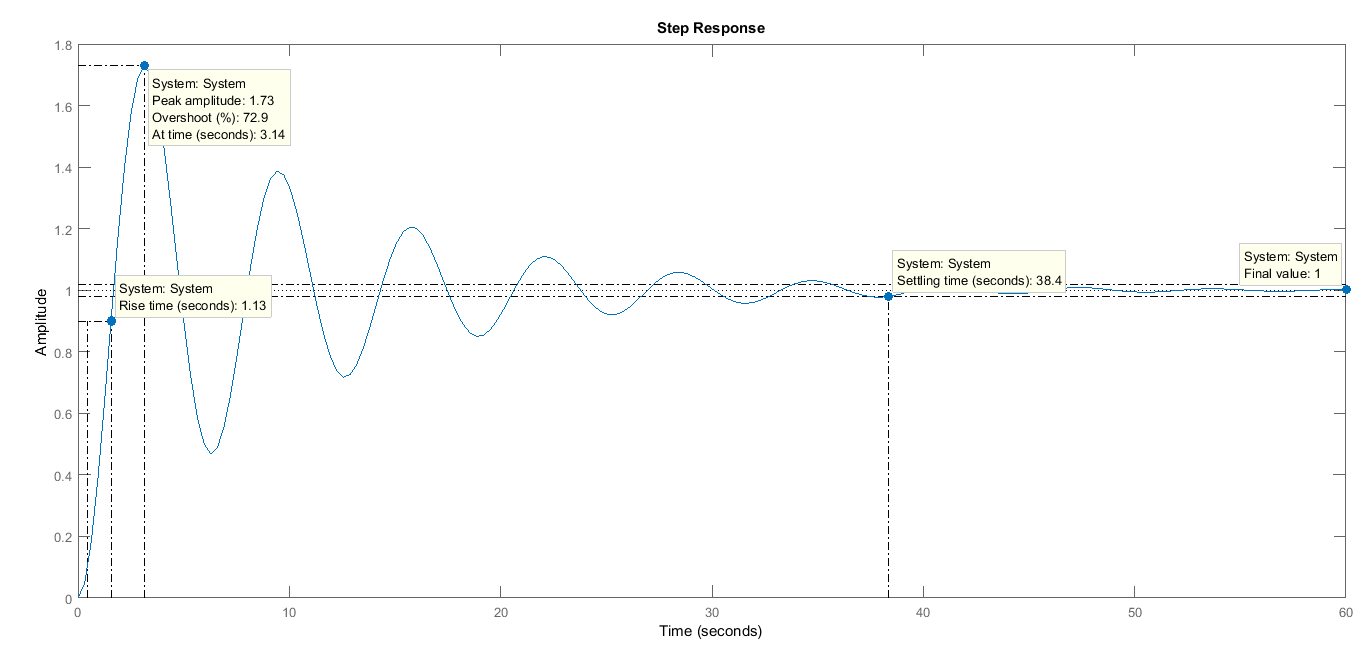


Impulse Response

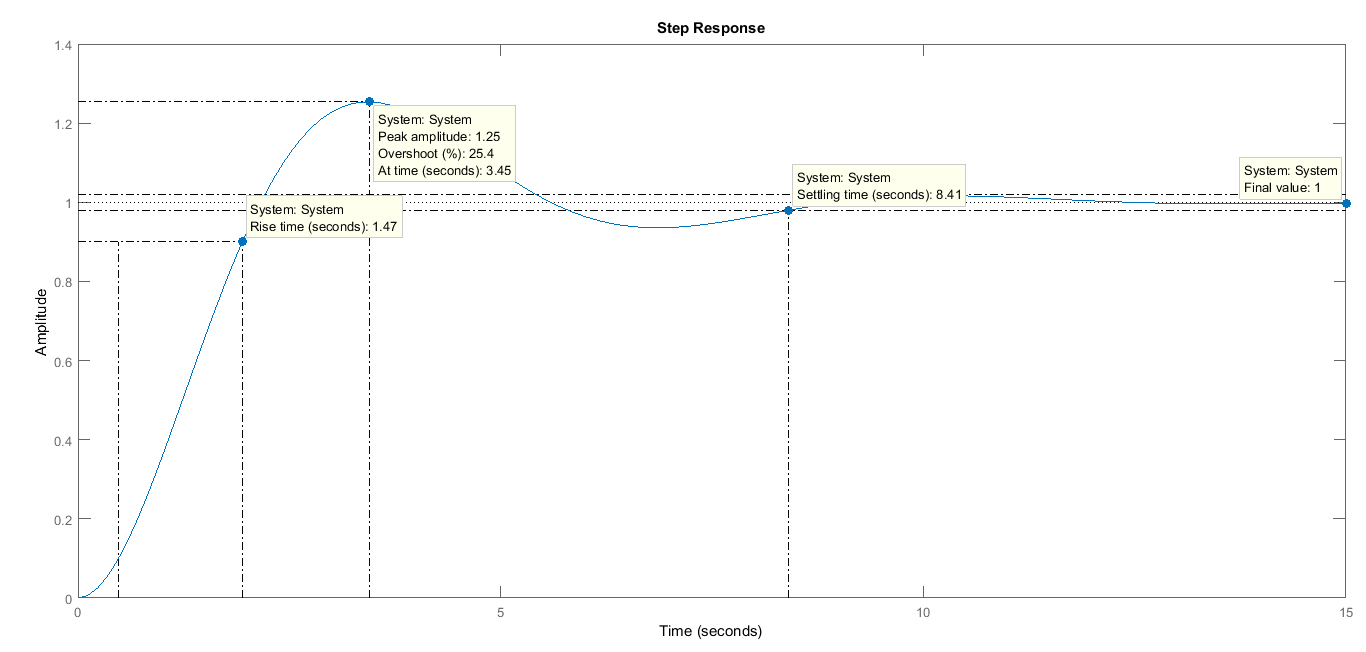


Step Response

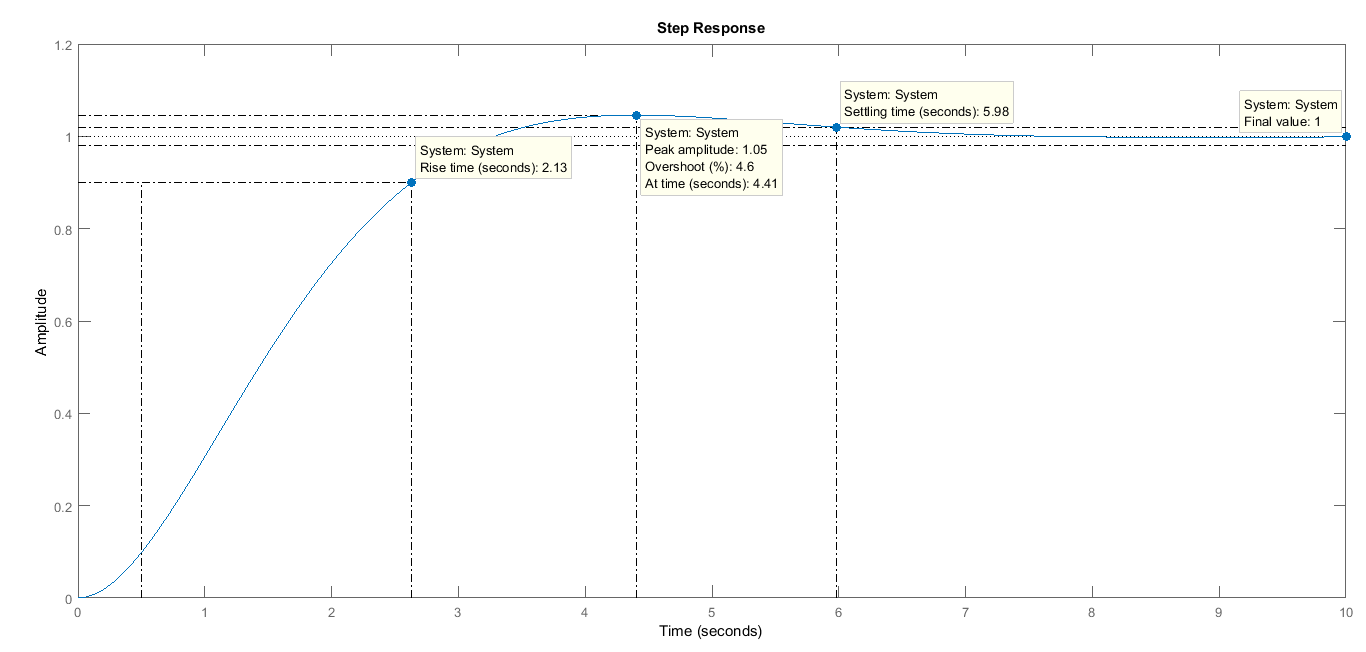
# Exercise 3 - In-Lab Task 2



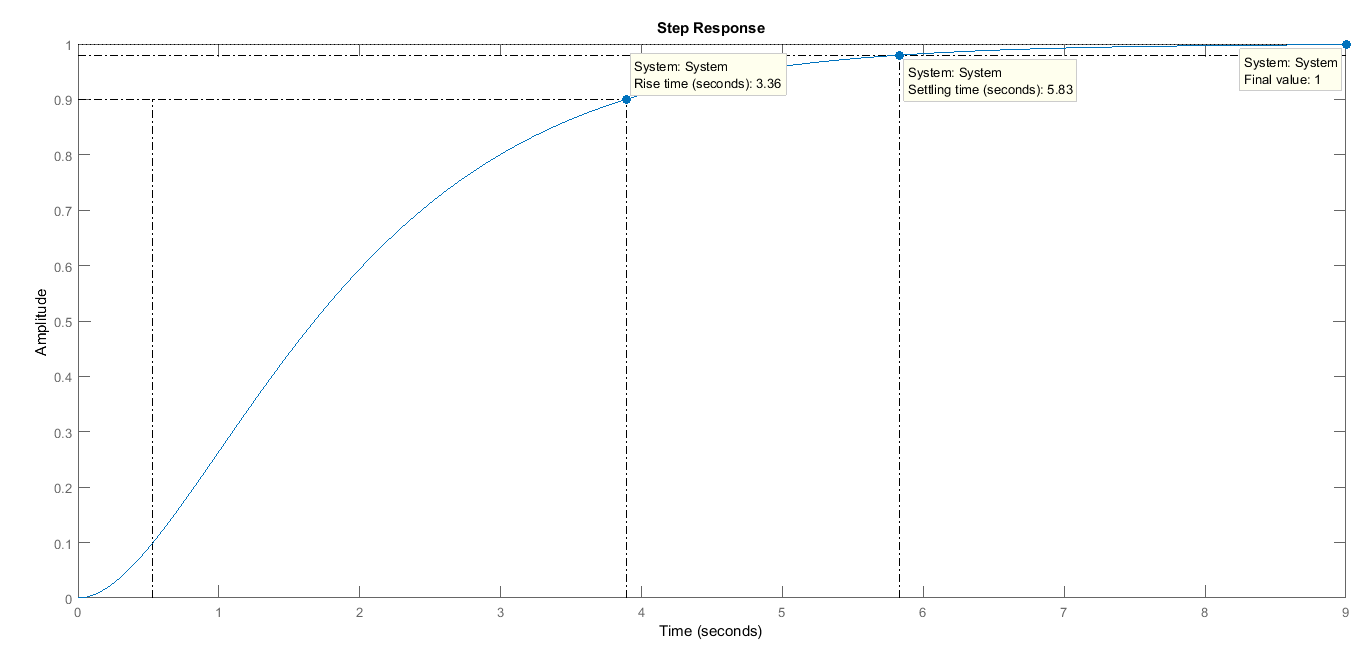
Damping Ratio



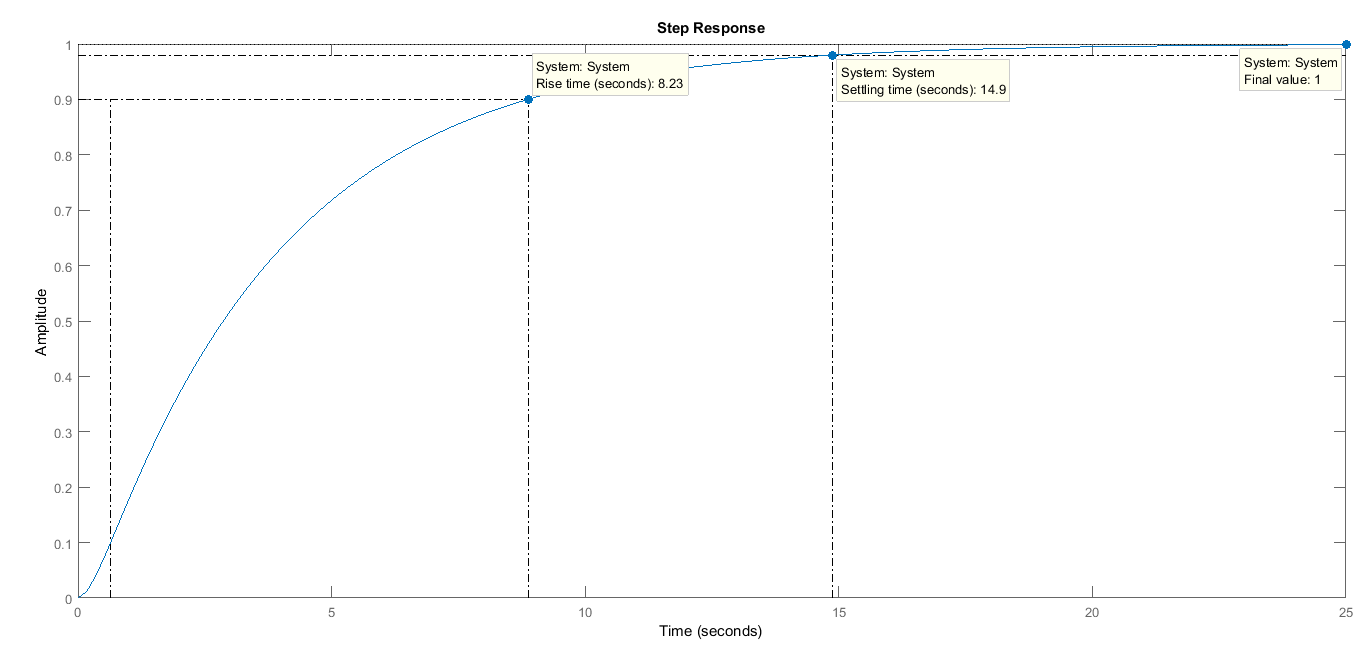
Damping Ratio



Damping Ratio



Damping Ratio



Damping Ratio