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Lab 5

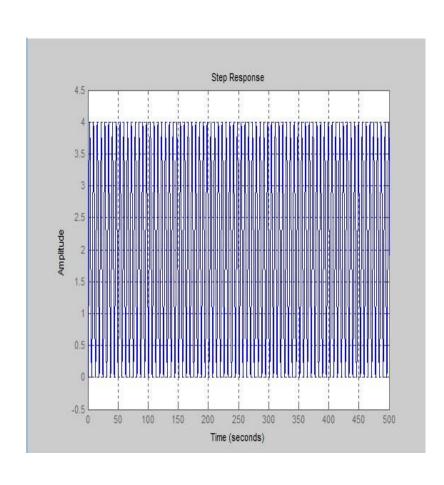
```
Q1)
```

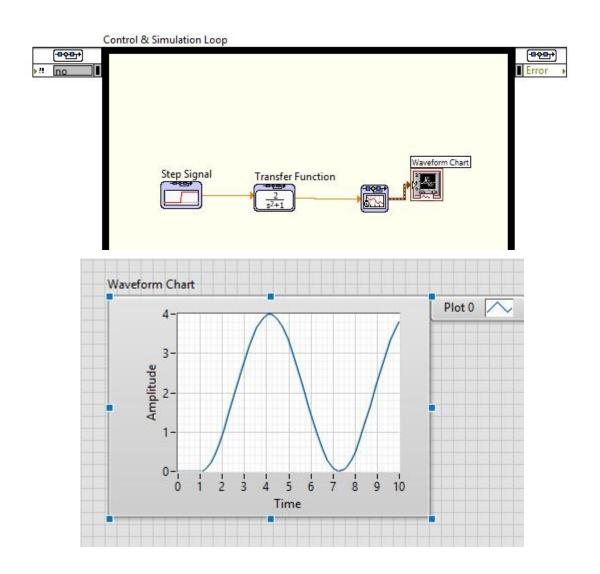
```
>> num =[2];
den =[1 0 1];
sys =tf(num,den)
step(sys)
grid

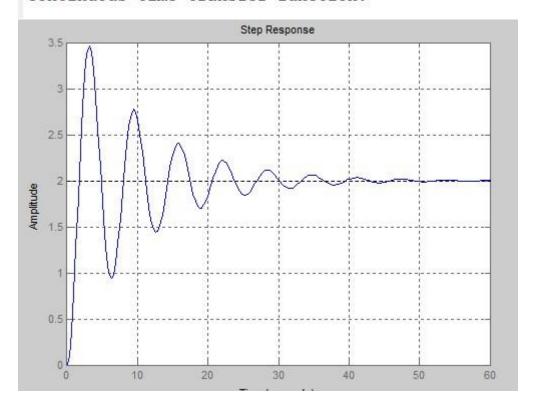
sys =

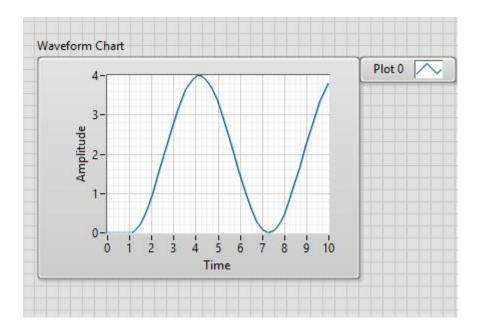
2
-----
s^2 + 1

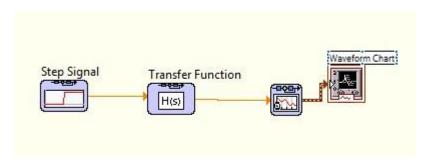
Continuous-time transfer function.
```



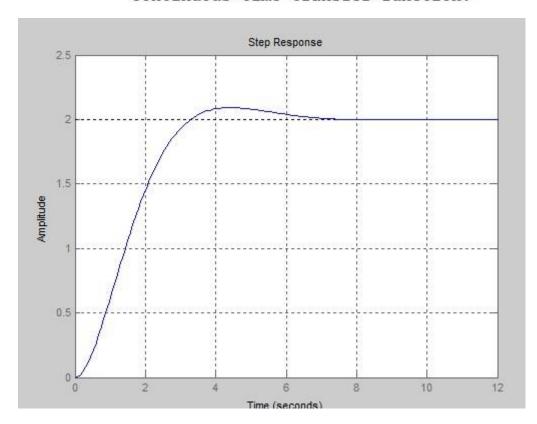


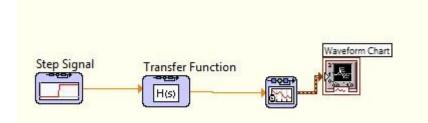


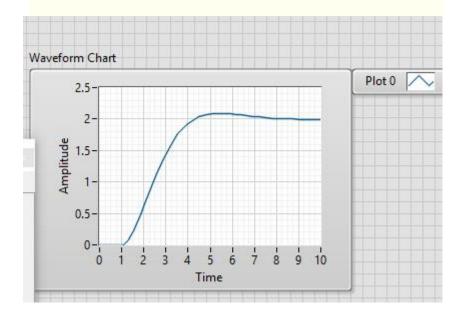




(3

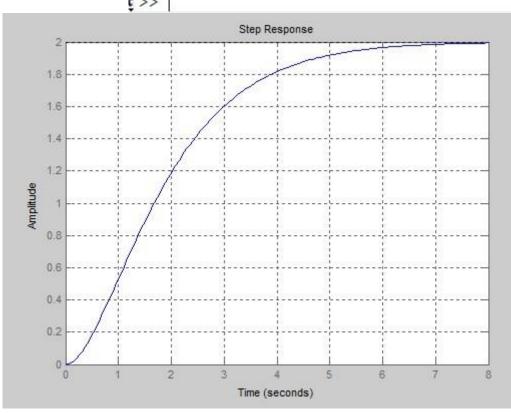


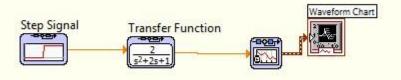


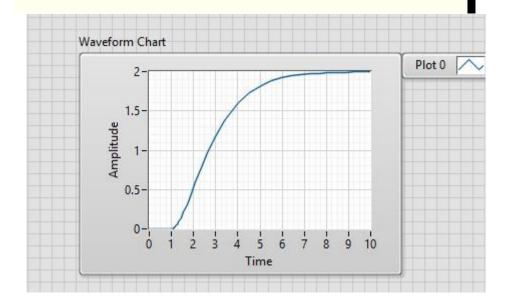


```
den = [1 (2*1) 1];
sys =tf(num,den)
step(sys)
grid
sys =
        2
  s^2 + 2 s + 1
```

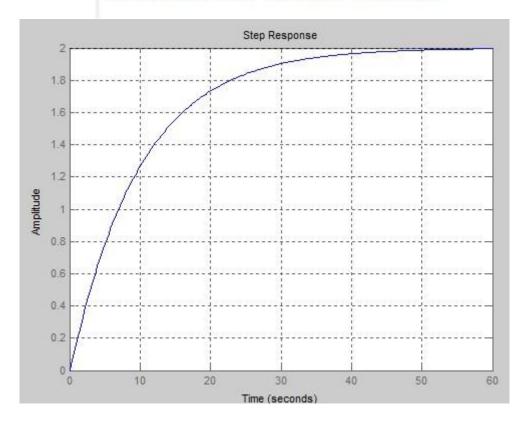


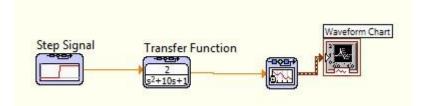


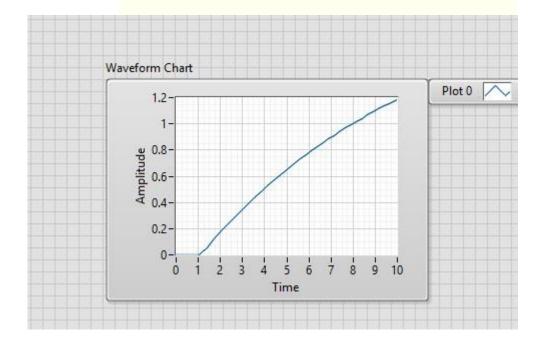




4)

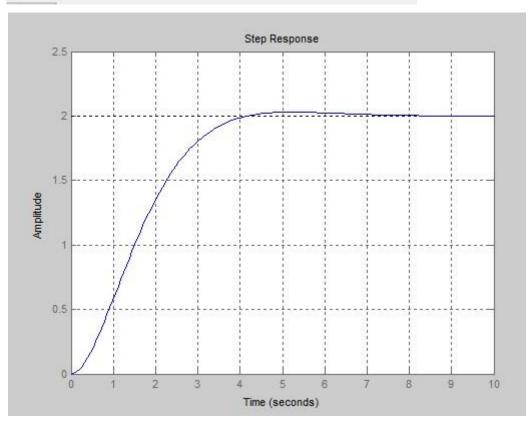


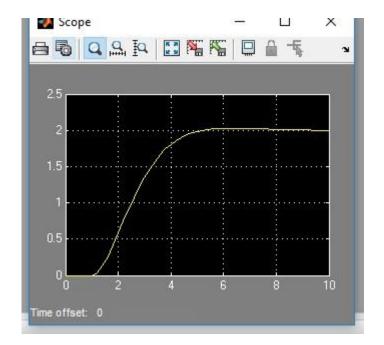


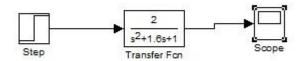


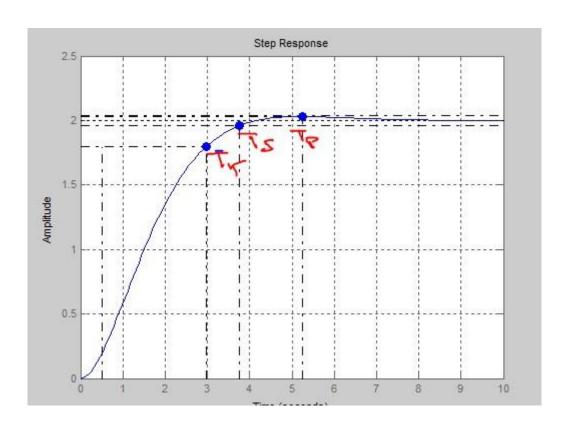
c)

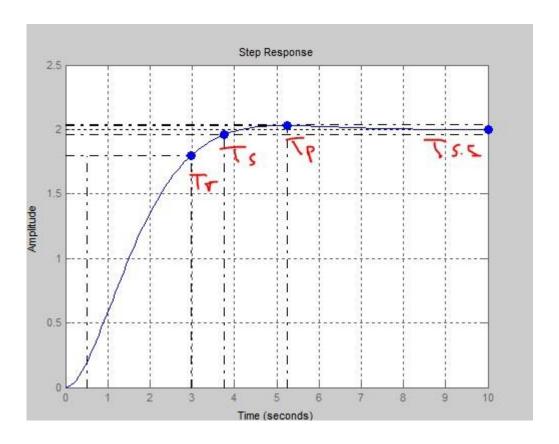
fx >> |











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Q2)
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