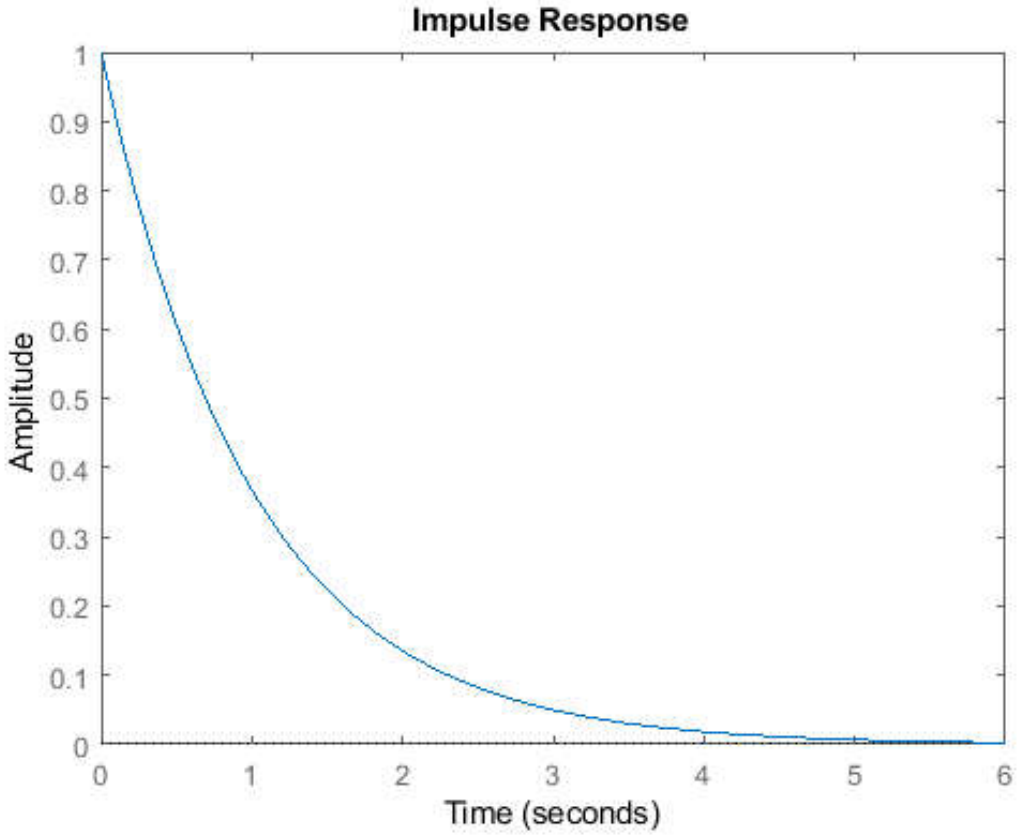
Verifying impulse response of 1/(1+s)

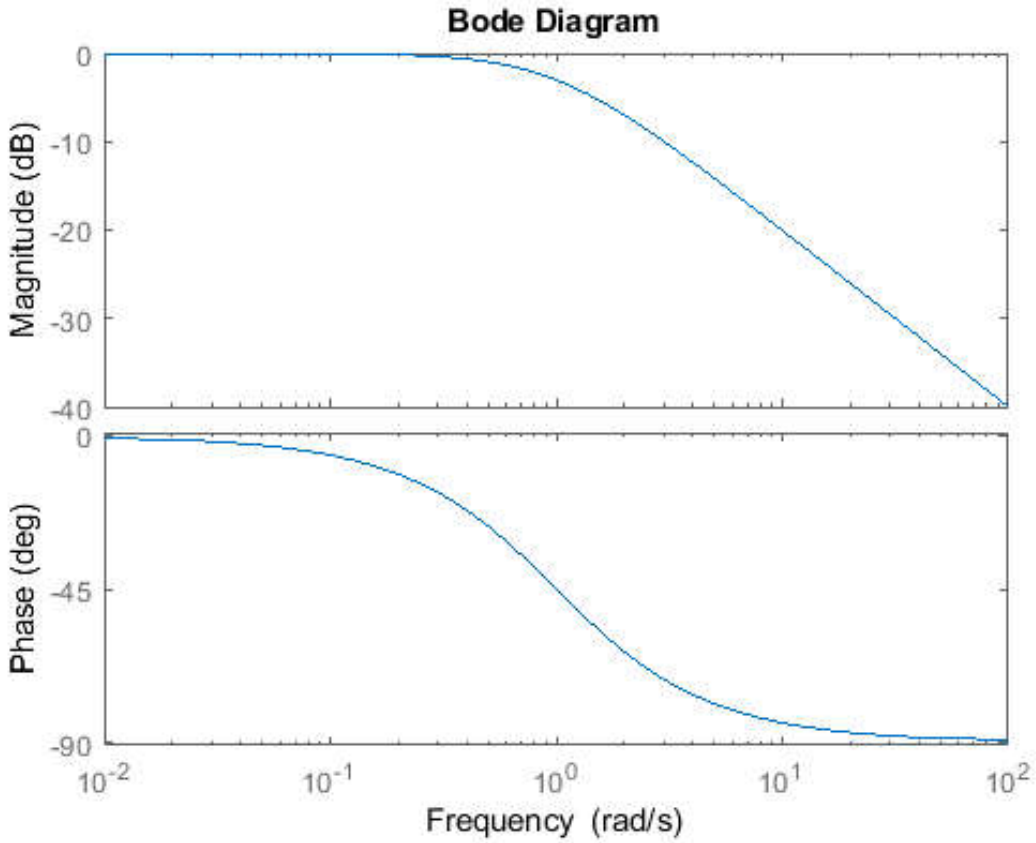
- impulse response of tf=1/(1+s)

```
s=tf('s');
stf=1/(1+s);
figure(1)
impulse(stf)
hold
```




```
Current plot held
```

```
figure(2)
bode(stf)
hold
```




```
Current plot held
```

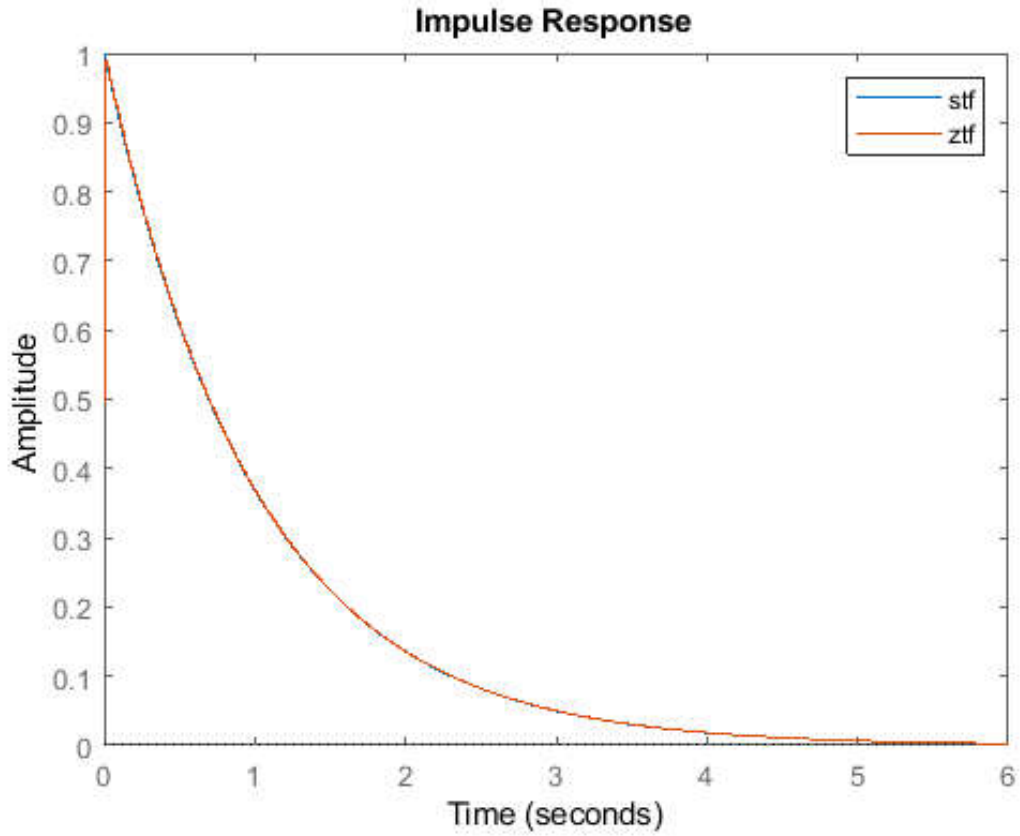
- ztf=c2d(1/1+s, 0.01)

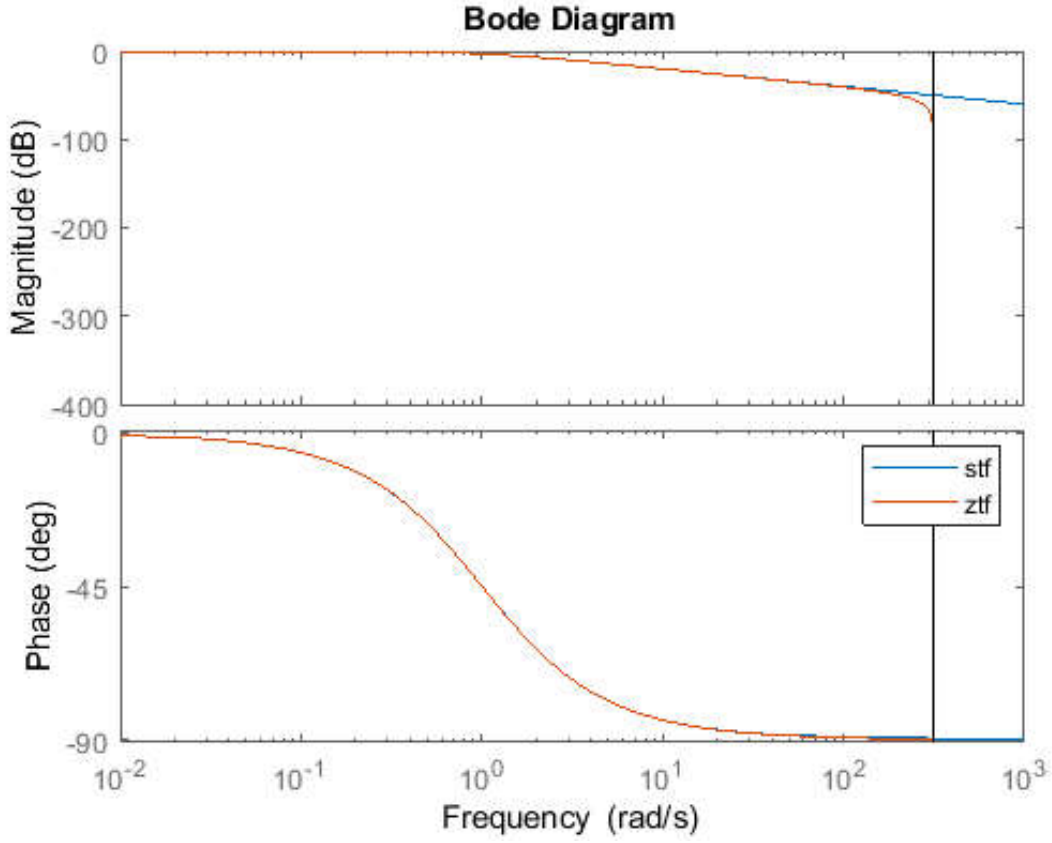
```
Ts=.01;
ztf=c2d(1/(1+s), Ts,'tustin')
```

```
ztf =

  0.004975 z + 0.004975
  ---------------------
        z - 0.99

Sample time: 0.01 seconds
Discrete-time transfer function.
```

- impulse response of ztf

```
figure(1)
impulse(ztf,[0:Ts:6])
legend
```




```
figure(2)
bode(ztf)
legend
```