

Time response of first order system

Batch no 16:

511821,511845,511873,511875,511880

```
1 % step response of a second order system
2 wn = 2;
3 z = 0.25;
4 num = [wn*wn];
5 den = [1 2*z*wn wn*wn];
6 sys = tf(num, den)
7 step(sys);
```

Command Window


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4

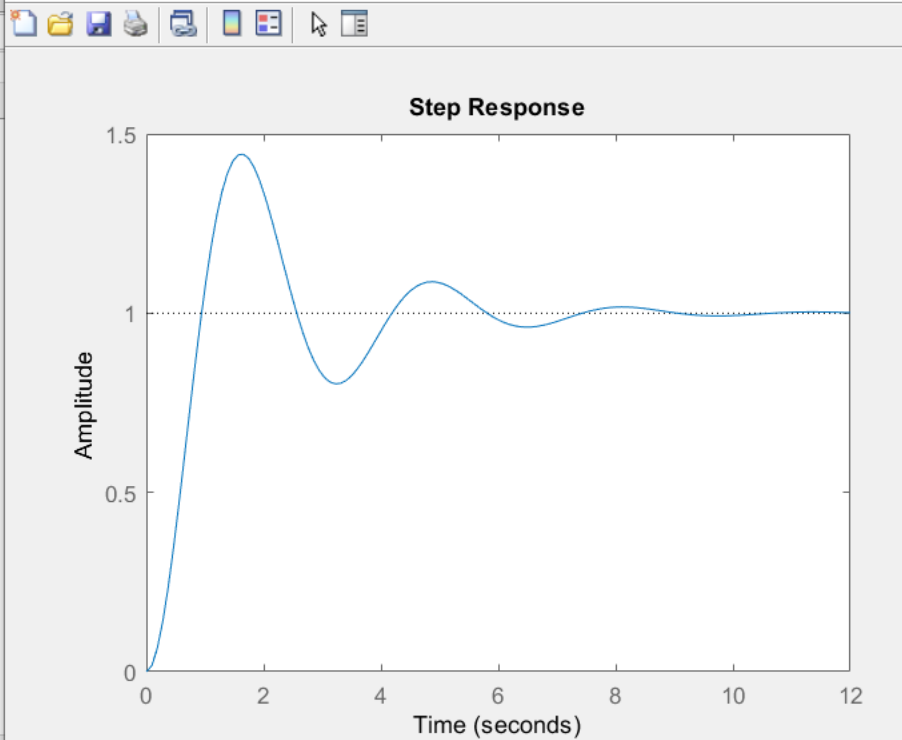
$$s^2 + s + 4$$

Continuous-time transfer function.

 $f_x \gg$

 Figure 1

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```

4 sys=Zpk(z,p,k);
5 t=[0:0.001:1];
6 step(sys,t);

```

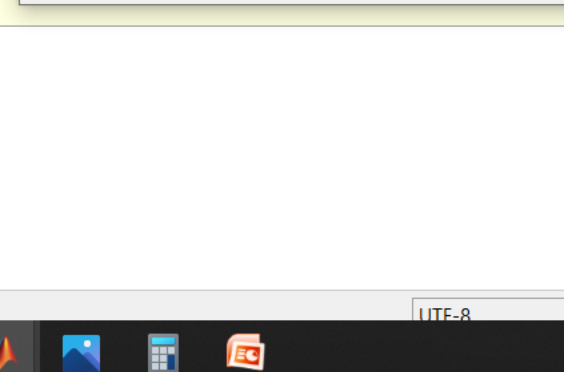
	Amp	9.9
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Details ▾

```
>> Lab02
>> Lab03
```

Select a file to view details

Windows taskbar showing search bar and various application icons (Edge, File Explorer, Chrome, WhatsApp, PC, PDF, etc.).



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older ▶ CS_Lab

Editor - D:\New folder\CS_Lab\Lab02.m

Lab0.m Lab01.m Lab02.m +

```

1 - Z=[];
2 - P=[-105+105i -105-105i];
3 - K=1000;
4 - sys=zpk(Z,P,K);
5 - t=[0:0.001:1];
6 - step(sys,t);

```

Command Window

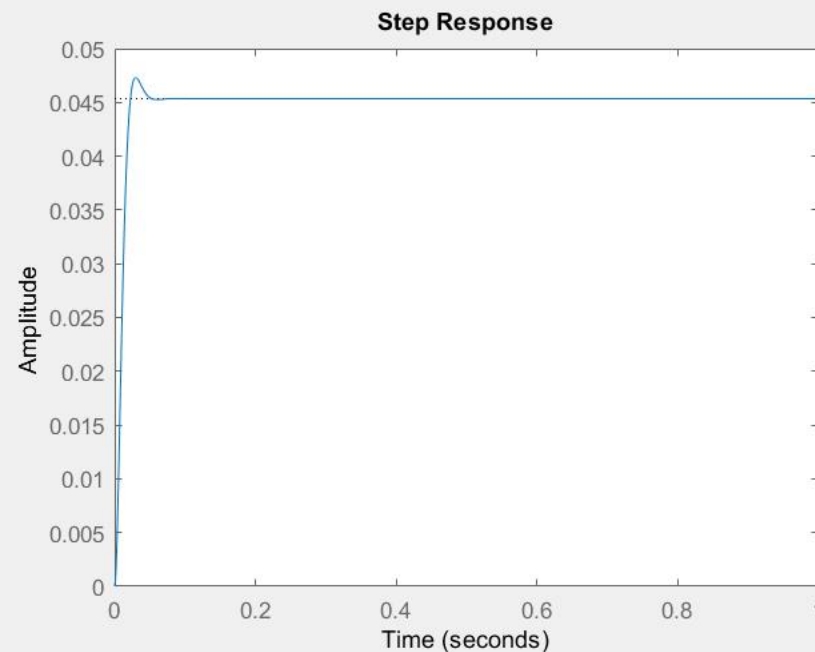
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>> Lab02

fx >>

Figure 1

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UTE-8

script

U: 0.00 kbit/s
D: 0.00 kbit/s

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older ▸ CS_Lab

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Lab0.m Lab01.m Lab02.m Lab03.m +

```
1 - Z=[];
2 - P=[-0.0476+0.0476i -0.0476-0.0476i];
3 - K=1000;
4 - sys=zpk(Z,P,K);
5 - t=[0:0.001:1];
6 - step(sys,t);
```

Command Window

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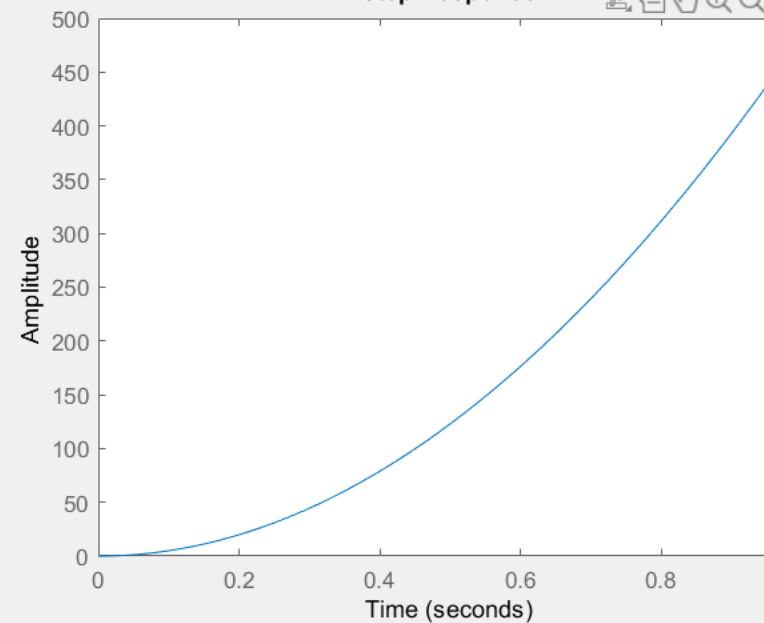
```
>> Lab02
>> Lab03
fx >>
```

Figure 1

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Step Response



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