

HOME PLOTS APPS

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Details

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Command Window

New to MATLAB? See resources for [Getting Started](#).

```
>> num=[100]

num =

    100

>> den=[1,10,100]

den =

     1     10    100

>> sys=tf(num,den)

sys =

    100
-----
s^2 + 10 s + 100

Continuous-time transfer function.

>> [Mr,Wr]=getPeakGain(sys)

Mr =

    1.1547

Wr =
```

Workspace

Name *	Value
den	[1,10,100]
Mr	1.1547
num	100
sys	1x1 tf
Wb	12.7119
Wr	7.0610

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```
>> sys=tf(num,den)

sys =

      100
-----
s^2 + 10 s + 100

Continuous-time transfer function.

>> [Mr,Wr]=getPeakGain(sys)

Mr =

      1.1547

Wr =

      7.0610

>> Wb=bandwidth(sys)

Wb =

      12.7119

>> bode(sys)
>> margin(sys)
fx >>
```

Workspace

Name *	Value
den	[1,10,100]
Mr	1.1547
num	100
sys	1x1 tf
Wb	12.7119
Wr	7.0610

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```
>> sys=tf(num,den)

sys =

      12
-----
s^2 + 7 s + 12

Continuous-time transfer function.

>> [Mr,Wr]=getPeakGain(sys)

Mr =

      1

Wr =

      0

>> Wb=bandwidth(sys)

Wb =

      2.1927

>> bode(sys)
>> margin(sys)
fx >>
```

Workspace

Name *	Value
den	[1,7,12]
Mr	1
num	12
sys	1x1 tf
Wb	2.1927
Wr	0