

```
w = logspace(-2, 4, 200)
```

```
w = 1x200  
104 ×  
0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 ...
```

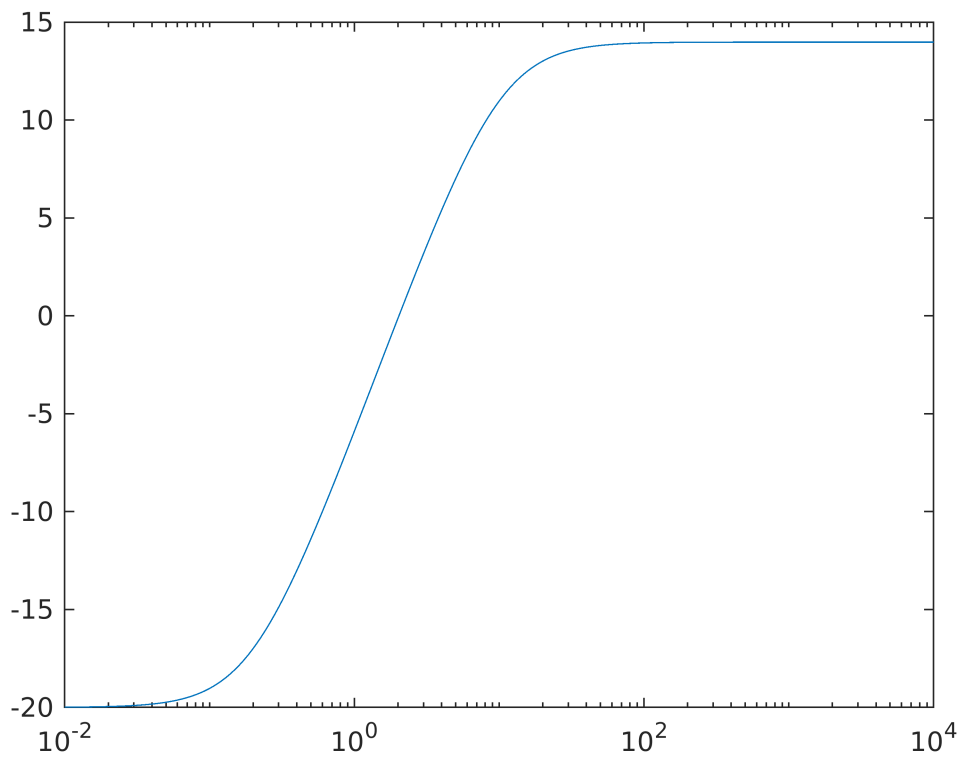
```
db = 20 * log10(sqrt((10 + 5 * w.^2).^2 + (49 * w).^2) ./ (100 + w.^2))
```

```
db = 1x200  
-19.9892 -19.9875 -19.9857 -19.9836 -19.9811 -19.9783 -19.9751 -19.9714 ...
```

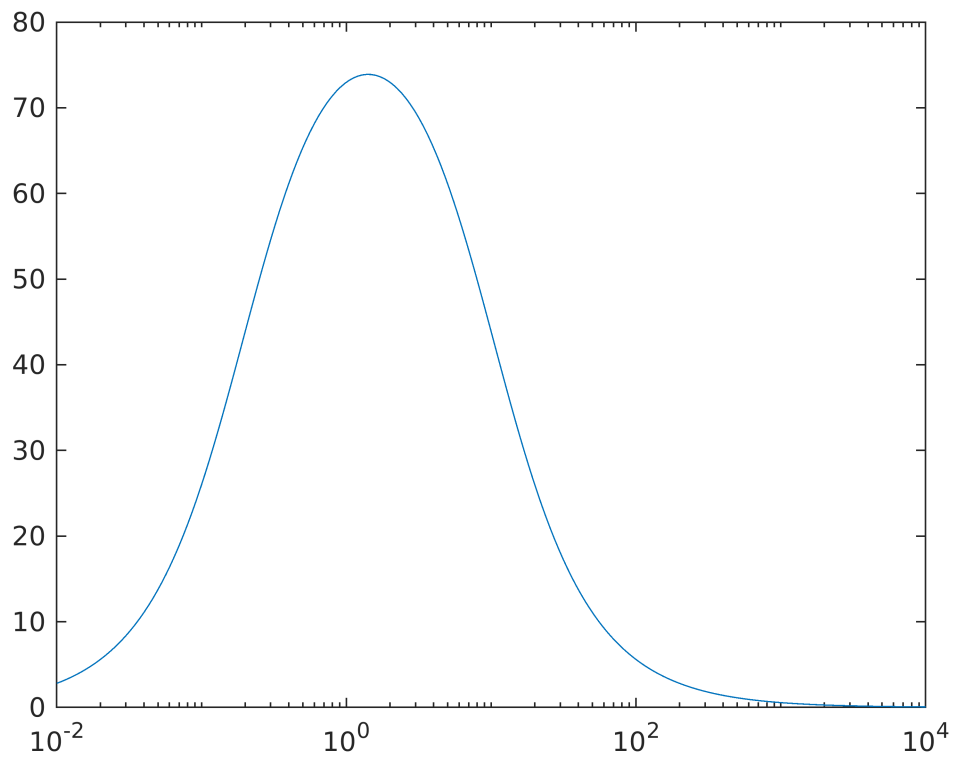
```
deg = atan(49 * w ./ (10 + 5 * w.^2))
```

```
deg = 1x200  
2.8051 3.0064 3.2221 3.4531 3.7007 3.9658 4.2499 4.5541 ...
```

```
semilogx(w, db)
```



```
semilogx(w, deg)
```



```
H = tf([5 1], [1 10])
```

H =

$$\frac{5s + 1}{s + 10}$$

Continuous-time transfer function.

```
bode(H)
```

Bode Diagram

