```
f = 1 : 0.001 : 1000
```

```
f = 1×999001
10^3 ×
    0.0010    0.0010    0.0010    0.0010    0.0010    0.0010    0.0010    0.0010 ···
```

```
w = 2*pi*f
```

```
w = 1×999001
10^3 ×
    0.0063    0.0063    0.0063    0.0063    0.0063    0.0063    0.0063    0.0063 ···
```

```
S = i*w
```

```
S = 1×999001 complex
10^3 ×
   0.0000 + 0.0063i   0.0000 + 0.0063i   0.0000 + 0.0063i   0.0000 + 0.0063i ···
```

```
H = S.*(S+100) / (S+2).*(S+10)
```

```
H = 1×999001 complex
10^7 ×
  -0.0029 + 0.0048i  -0.0029 + 0.0048i  -0.0029 + 0.0048i  -0.0029 + 0.0048i ···
```

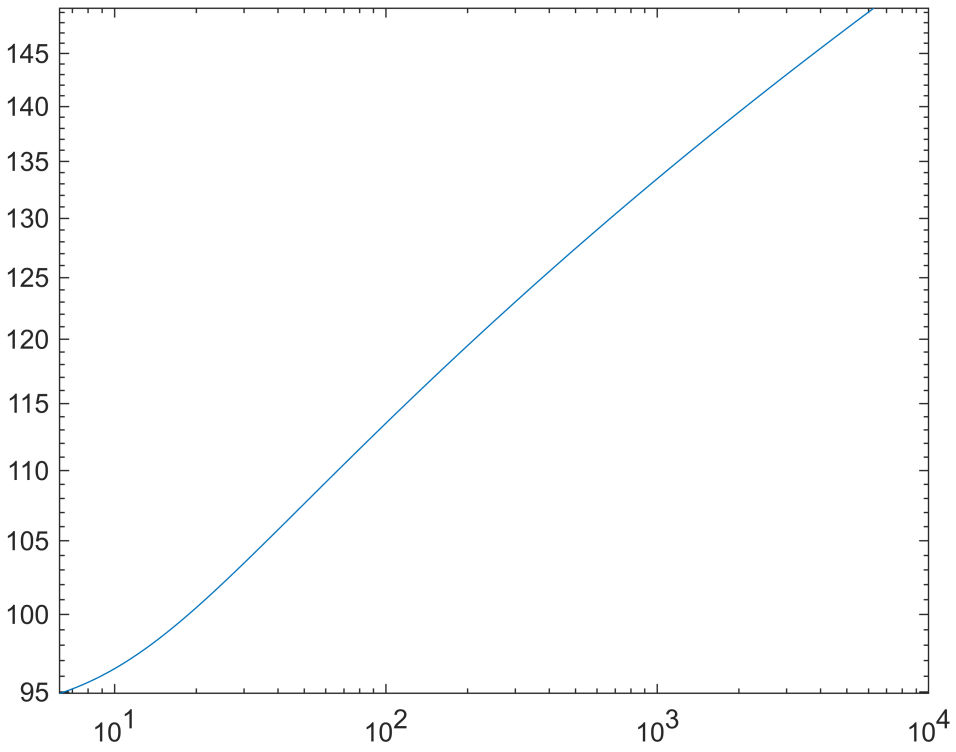
```
module = 20*log10(abs(H))
```

```
module = 1×999001
   94.9119   94.9143   94.9168   94.9192   94.9217   94.9242   94.9266   94.9291 ···
```

```
phase = angle(H)
```

```
phase = 1×999001
    2.1110    2.1114    2.1119    2.1123    2.1128    2.1132    2.1137    2.1141 ···
```

```
loglog(w, module)
```




```
loglog(w, phase)
```