```
w = tf([2352, 1176],[1,21,146,336])
```

```
w =

        2352 s + 1176
  --------------------------
  s^3 + 21 s^2 + 146 s + 336

Continuous-time transfer function.
```

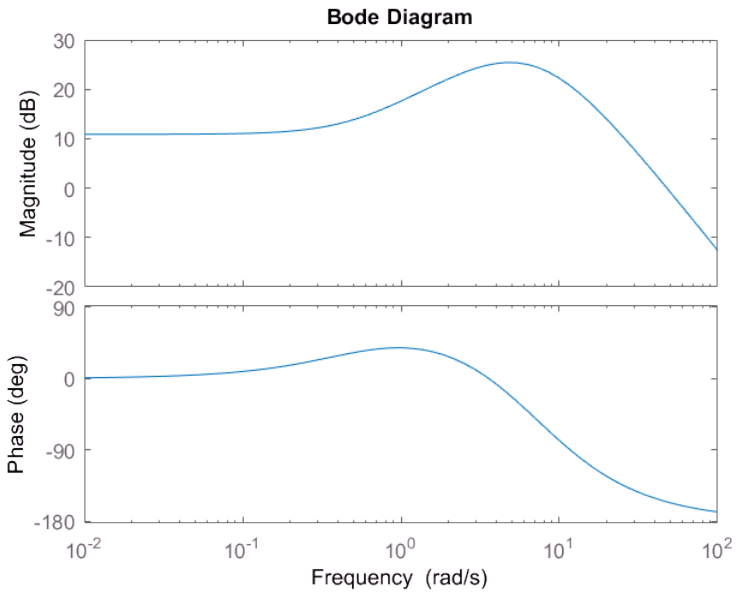
```
zpk(w)
```

```
ans =

    2352 (s+0.5)
  -----------------
  (s+8) (s+7) (s+6)

Continuous-time zero/pole/gain model.
```

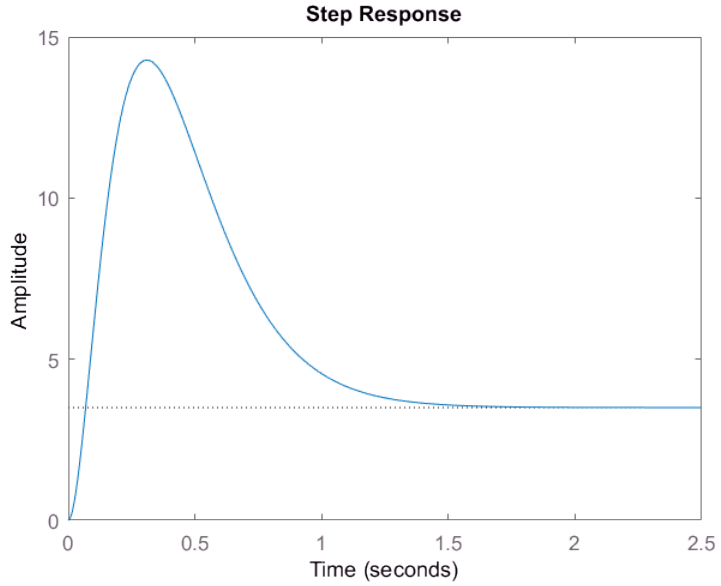
```
ss(w)
```

```
ans =

  A =
          x1      x2      x3
   x1     -21  -9.125   -5.25
   x2      16       0       0
   x3       0       4       0

  B =
       u1
   x1  16
   x2   0
   x3   0

  C =
         x1     x2     x3
   y1     0  9.188  1.148

  D =
       u1
   y1   0

Continuous-time state-space model.
```

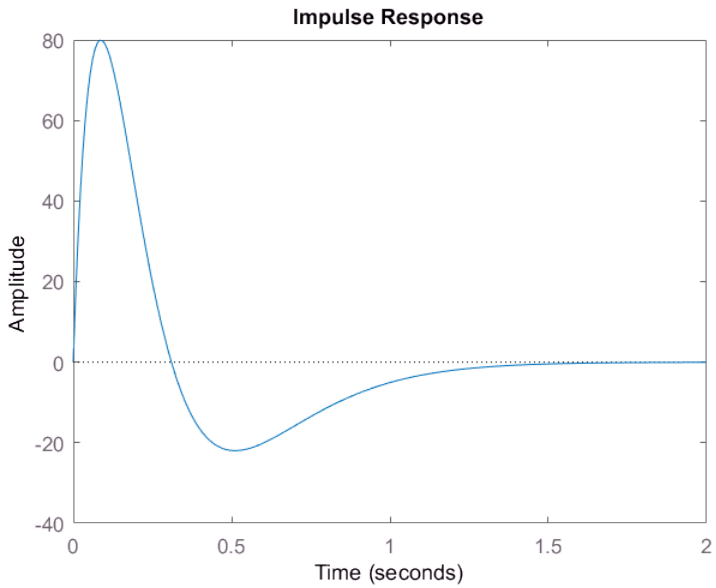
```
bode(w)
```




```
step(w)
```




```
impulse(w)
```


Impulse Response
Amplitude
Time (seconds)
80
60
40
20
0
-20
-40
0
0.5
1
1.5
2