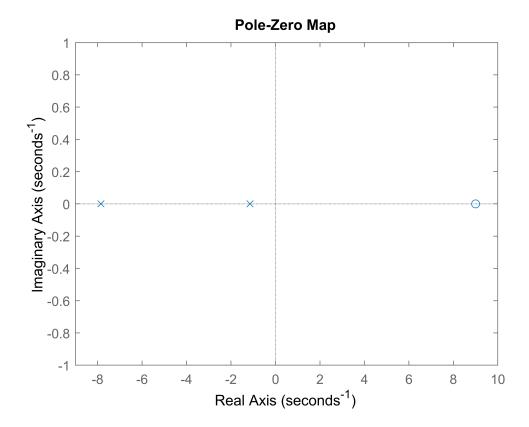


```
[zz pp kk] = tf2zp(num,den);
pzmap(pp,kk)
xlim( [-9 10] )
```

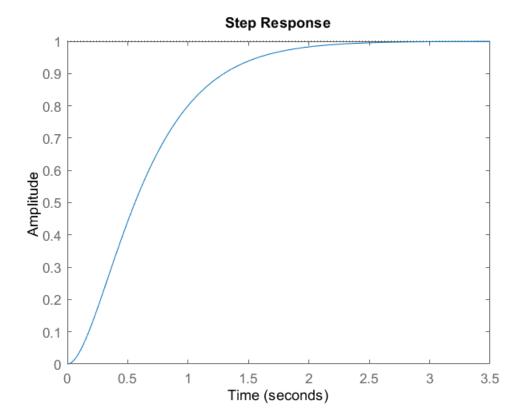


```
clear all
num = [9];
den = [1 6 9];

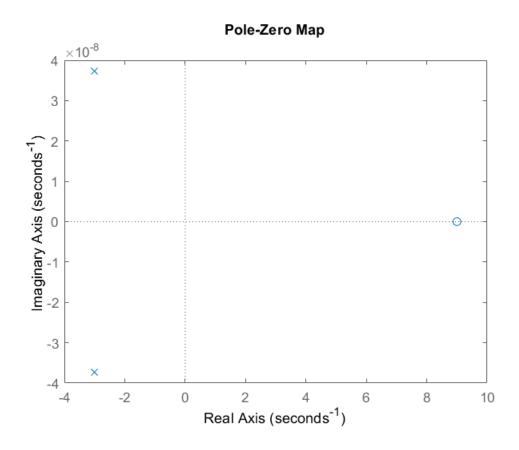
p = roots(den)

p = 2×1 complex
    -3.0000 + 0.0000i
    -3.0000 - 0.0000i

step(num,den)
```



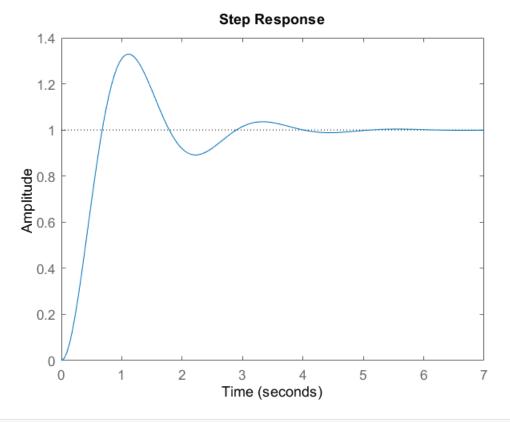
[zz pp kk] = tf2zp(num,den);
pzmap(pp,kk)



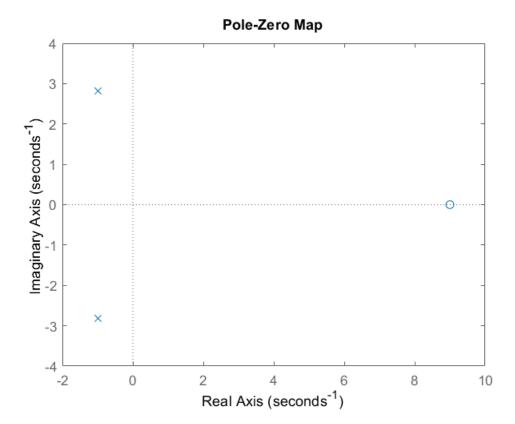
```
clear all
num = [9];
den = [1 2 9];

p = roots(den)

p = 2×1 complex
    -1.0000 + 2.8284i
    -1.0000 - 2.8284i
    step(num,den)
```



```
[zz pp kk] = tf2zp(num,den);
pzmap(pp,kk)
xlim( [-2 10] )
ylim( [-4 4] )
```



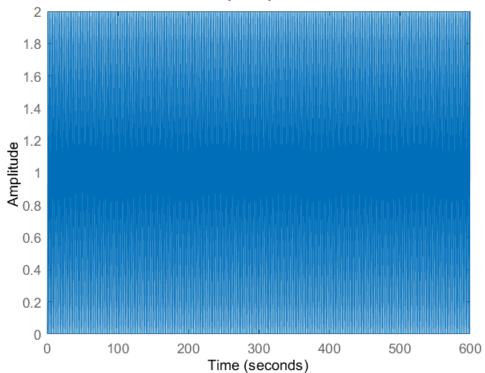
```
clear all
num = [9];
den = [1 0 9];

p = roots(den)

p = 2×1 complex
    0.0000 + 3.0000i
    0.0000 - 3.0000i

step(num,den)
```

Step Response



```
[zz pp kk] = tf2zp(num,den);

pzmap(pp,kk)
xlim( [-1 10] )
ylim( [-4 4] )
```

