

```
% Bode, Nyquist and Root Locus
sys = tf([-2 -1],[1 5 3])
figure(1)
pzmap(sys)
grid
figure(2)
margin(sys)
[Gm,Pm,Wcg,Wcp] = margin(sys)
grid
figure(3)
nyquist(sys)
grid
figure(4)
rlocus(sys)
grid
figure(5)
step(sys)
grid
stepinfo(sys)
sys =
    -2 s - 1
  s^2 + 5 s + 3
Continuous-time transfer function.
Gm =
    2.5000
Pm =
   Inf
Wcg =
    0.7071
Wcp =
   NaN
ans =
```

## struct with fields:

RiseTime: 0.2360
SettlingTime: 4.5302
SettlingMin: -0.4075
SettlingMax: -0.3022
Overshoot: 22.2557
Undershoot: 0

Peak: 0.4075 PeakTime: 0.8134









