```
% Effect of addition on closed loop poles
sys - tf([1], [1 3 6])
p • [-1 -5 -10 -20]
for 1-1:4
    sys_new = tf([1], [1 -p(1)])*sys
    subplot(2, 2, 1)
    step(sys_nem)
    stepinfo(sys_new)
end
sys .
        1
  a*2 · 3 # · 6
Continuous-time transfer function.
P .
     -1 -5 -10 -20
 aya_new -
   #*3 · 4 #*2 · 5 # · 6
 Continuous-time transfer function.
 ans .
   struct with fields:
          RiseTime: 2.0308
      SettlingTime: 4.3619
       SettlimMin: 0.1501
       SettlingMax: 0.1667
         Overshoct: 0
        Undershoot: 0
              Peak: 0.1667
          PoakTime: 12.8484
  sys_nev -
```

```
#.3 . # W.5 . 51 # . 10
```

Continuous-time transfer function.

ADS .

struct with fields:

PiseTime: 0.8705 SettlingTime: 2.6518 SettlingNin: 0.0301 SettlingMax: 0.0358 Oversheet: 7.4106

Undershoet: 0

Feat: 0.0358 FeatTime: 1.8789

BYE_DEW .

1 . 13 #*2 • 36 # • 60

Continuous-time transfer function.

ans .

struct with fields:

RiseTime: 0.7990 SettlingTime: 2.5417 SettlingMin: 0.0152 SettlingMax: 0.0181 Overshoot: 8.4569 Undershoot: 0

Peak: 0.0181 PeakTime: 1.7500

sys_new -

1

Continuous-time transfer function.

ADS .

struct with fields: