```
% Effect of addition on closed loop zeroes
sys = tf([1], [1 3 6])
z = [-1 -5 -10 -20]
for 1-1:4
    sys_new = tf([1 - z(1)], [1])*sys
    subplot(2, 2, 1)
    step(sys_new)
    stepinfo(sys_nem)
end
272 ·
  #*2 · 3 # · 6
Continuous-time transfer function.
. .
    -1 -5 -10 -20
SYS_new .
      . . .
  s'2 · 3 s · 6
Continuous-time transfer function.
ans .
  struct with fields:
        RiseTime: 0.1658
    SettlingTime: 3.0252
     SettlingMin: 0.1508
     SettlingMax: 0.2867
       Oversheet: 72.0403
      Undershoot: 0
            Peak: 0.2867
        PeakTime: 0.6754
sys_new -
      . . 5
```

Continuous-time transfer function.

Ans -

struct with fields:

RiseTime: 0.6346 Settlimffine: 2.2140 SettlingNin: 0.7514 SettlingMax: 0.9198 Overshoot: 10.3779

Undershoot: 0

Feak: 0.9198 PeakTime: 1.3506

sys_nev -

· 10 a*2 · 3 a · 6

Continuous-time transfer function.

ans .

struct with fields:

RiseTime: 0.7398 SettlingTime: 2.3284 SettlingMin: 1.5323 Settlinmax: 1.8183 Overshoot: 9.0973 Undershoot: 0

Feak: 1.8183 PeakTime: 1.5044

ays_new .

s • 20 E*2 . 3 E . 6

Continuous-time transfer function.

ans .

struct with fields: