```
% Block Diagram Reduction
G1 = tf([1], [1 10])

G2 = tf([1], [1 1])

G3 = tf([1 0 1], [1 4 4])

G4 = tf([1 1], [1 6])
H1 = tf([1 1], [1 2])
H2 = tf([2], [1])
H3 = tf([1], [1])
H2 = H2/G4
sys = feedback(series(G3,G4), H1, +1)
sys = feedback(series(G2, sys), H2, -1)
sys = feedback(series(G1, sys), H3, -1)
G1 =
   1
  s + 10
Continuous-time transfer function.
G2 =
   1
  s + 1
Continuous-time transfer function.
G3 =
     s^2 + 1
  s^2 + 4 s + 4
Continuous-time transfer function.
G4 =
  s + 1
  s + 6
Continuous-time transfer function.
H1 =
```

s + 1

s + 2

Continuous-time transfer function.

H2 =

2

Static gain.

H3 =

1

Static gain.

H2 =

2 s + 12 -----s + 1

Continuous-time transfer function.

sys =

Continuous-time transfer function.

sys =

Continuous-time transfer function.

sys =