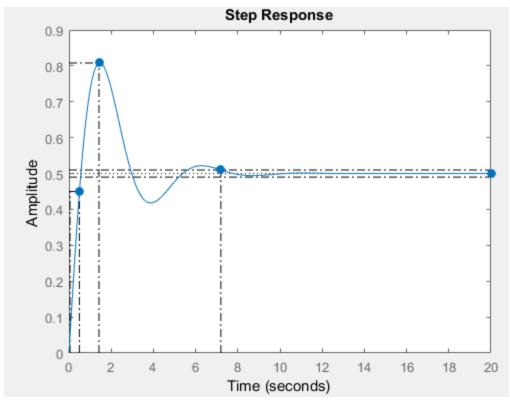
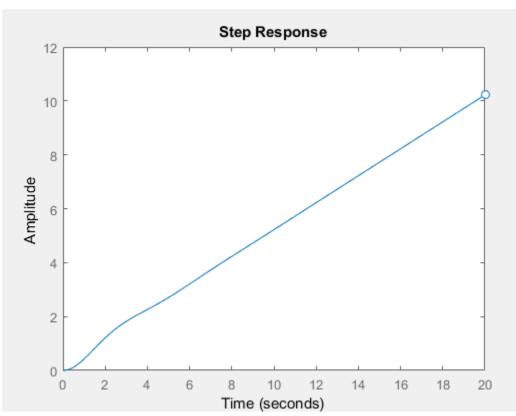
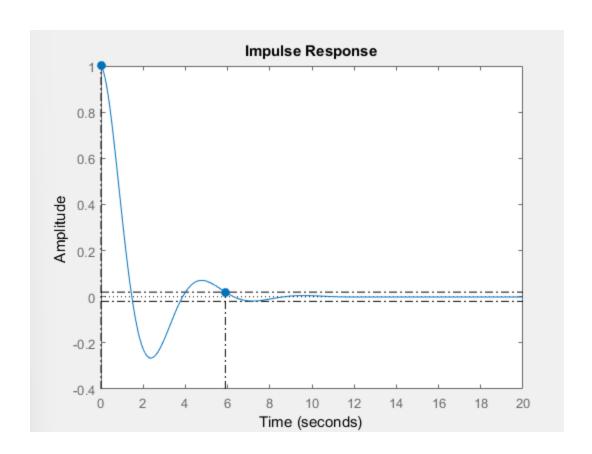
```
L. Odilon Petra I.
Tugas minggu 5
Link Github: https://github.com/dilonpetra/Sistem-Kendali.git
%Kd diubah ke 1,3,5,7,9
T = 1
Kp = 1;
Kd = 1;
s = tf('s')
num = 1;
den = [T T/10 1];
num_ct = [Kd Kp]
sys = tf(num, den);
sys ct = tf(num ct, [1]);
sys cl = feedback(sys ct*sys, 1);
step(sys cl)
step(sys cl/s)
impulse(sys cl)
stepinfo(sys cl)
xlim([0 30])
Program diawali dengan mendeklarasikan variable dan nilainya. T diset ke 1
dan d diberikan nilai 1,3,5,7,9.
System dikalikan dengan sistem P dan D dan difeedbackan dengan
feedback(sys_ct*sys, 1);
```

Kemudian setiap variasi D akan dilihat grafik Step Ramp Impulse beserta nilai Rise time, settling time, overshoot dan steady state error.





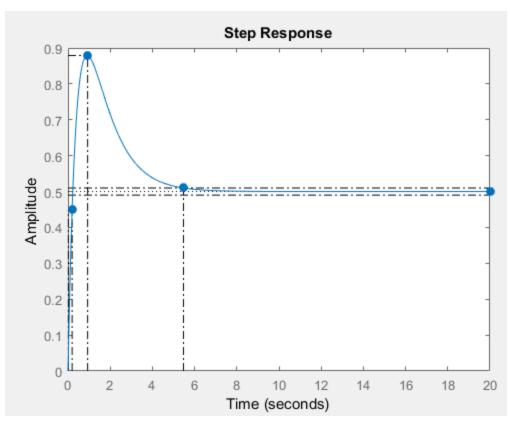


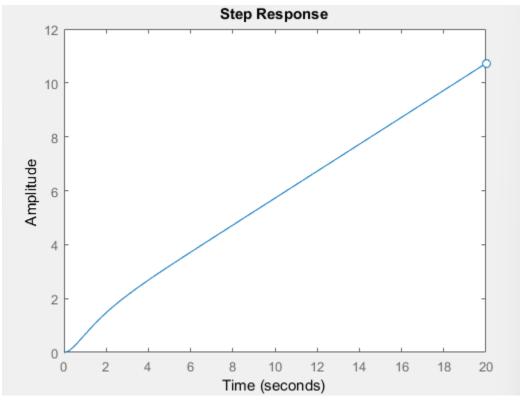
## ans = struct with fields:

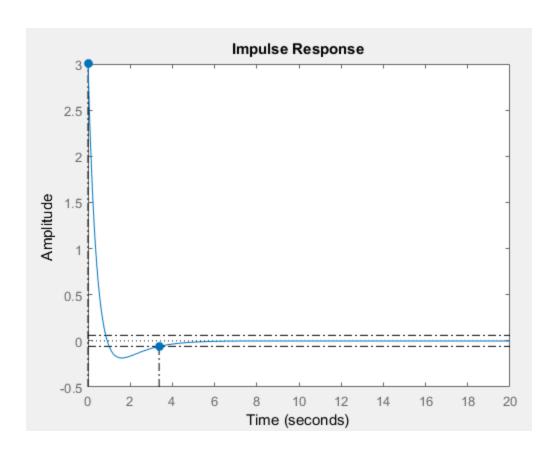
RiseTime: 0.4444 SettlingTime: 7.1994 SettlingMin: 0.4181 SettlingMax: 0.8082 Overshoot: 61.6324

Undershoot: 0

Peak: 0.8082 PeakTime: 1.4234



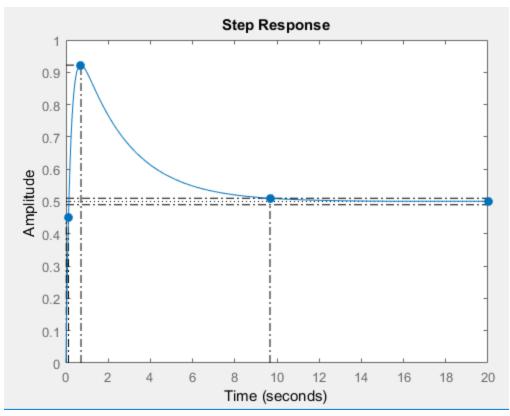


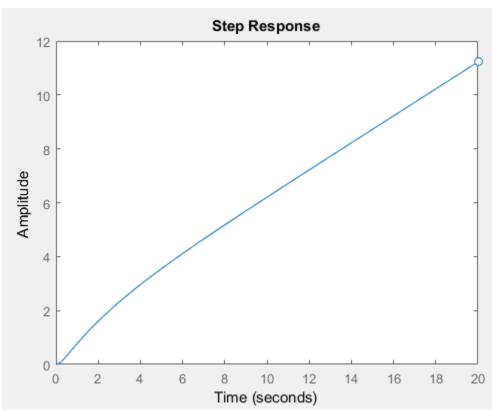


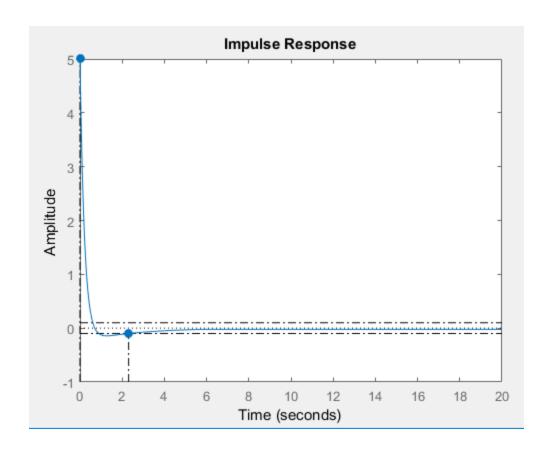
```
ans =

struct with fields:

RiseTime: 0.1785
SettlingTime: 5.4740
SettlingMin: 0.4755
SettlingMax: 0.8790
Overshoot: 75.7960
Undershoot: 0
Peak: 0.8790
PeakTime: 0.9276
```







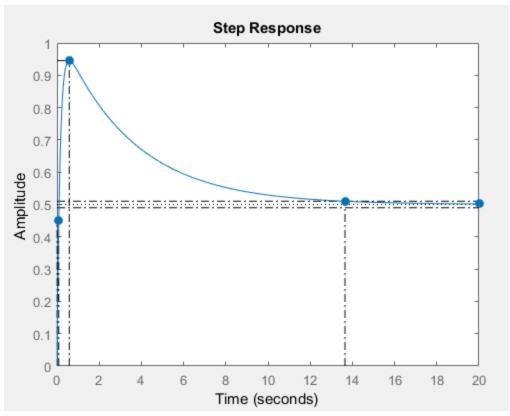
## struct with fields:

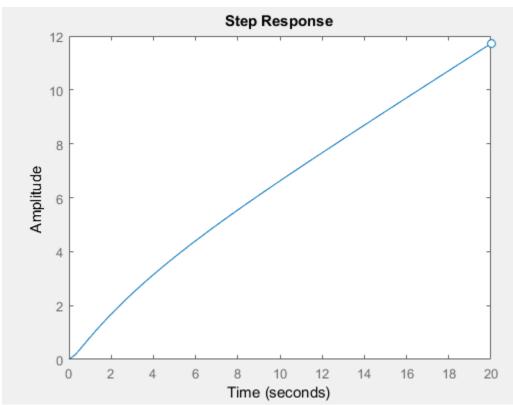
ans =

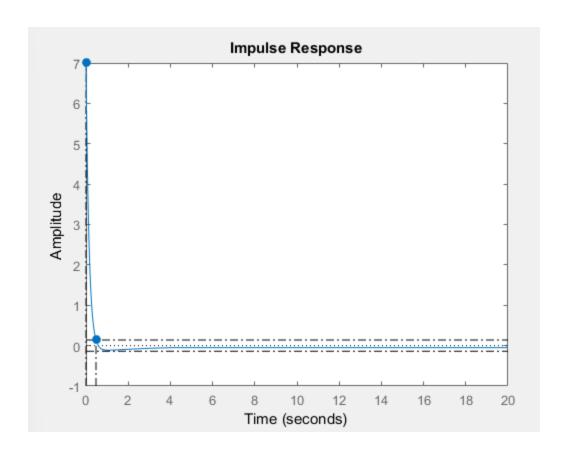
RiseTime: 0.1086 SettlingTime: 9.6698 SettlingMin: 0.4999 SettlingMax: 0.9223 Overshoot: 84.4653

Undershoot: 0

Peak: 0.9223 PeakTime: 0.7097





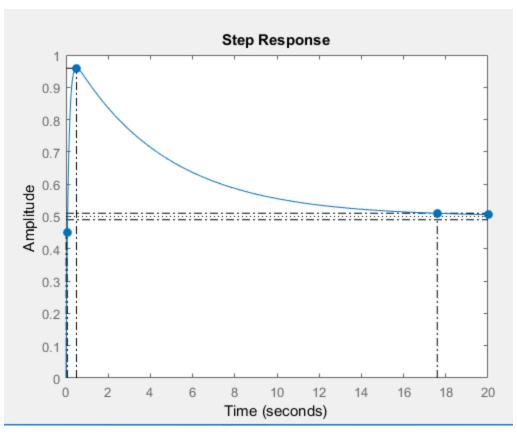


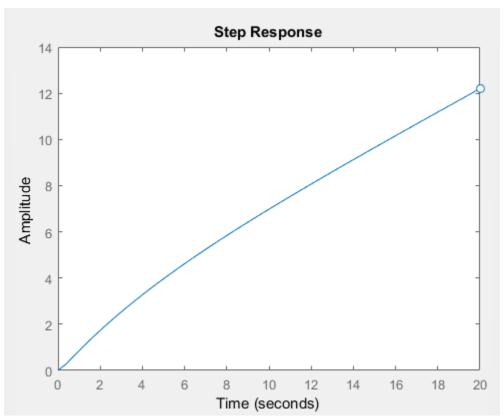
## ans = struct with fields:

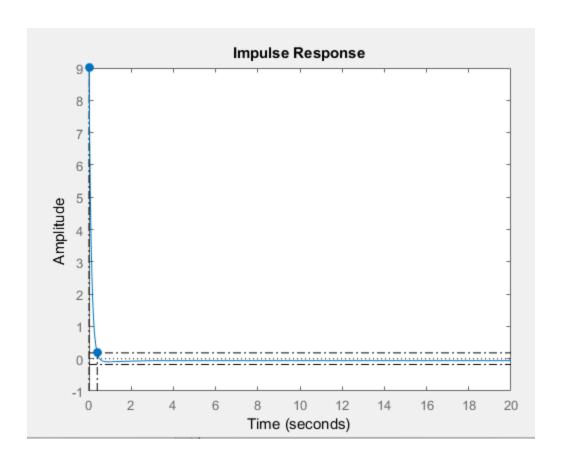
RiseTime: 0.0780 SettlingTime: 13.6516 SettlingMin: 0.4849 SettlingMax: 0.9455 Overshoot: 89.0934

Undershoot: 0

Peak: 0.9455 PeakTime: 0.5819







## ans = struct with fields:

RiseTime: 0.0608 SettlingTime: 17.5967 SettlingMin: 0.4797 SettlingMax: 0.9591 Overshoot: 91.8298

Undershoot: 0

Peak: 0.9591 PeakTime: 0.4982