L. Odilon Petra I.
Tugas minggu 3

Link Github: https://github.com/dilonpetra/Sistem-Kendali.git

- mendeklarasikan variable dalam integral effect control yaitu T, sys, Kp, Ki, s.

```
s = tf('s')
T = 1;

num = 1;
den = [T T/16 1];

Kp = 1;
Ti = 1;
Ki = Kp/Ti;

sys = tf(num, den);
```

- mendeklarasikan variable dalam integral effect control yaitu T, sys, Kp, Ki, s.

```
sys_c = tf([Kp, Ki], [1, 0]);
```

- menghitung fungsi = feedback(sys*sys_c,1)

```
fungsi = feedback (sys*sys_c, 1
```

- menghitung respon impulse, step dan ram

```
figure
subplot(311), step(fungsi*s);    % Impulse reponse
stepinfo(fungsi*s)
subplot(312), step(fungsi);       % Step Response
stepinfo(fungsi)
subplot(313), step(fungsi / s);   % Ramp response
stepinfo(fungsi/s)
```

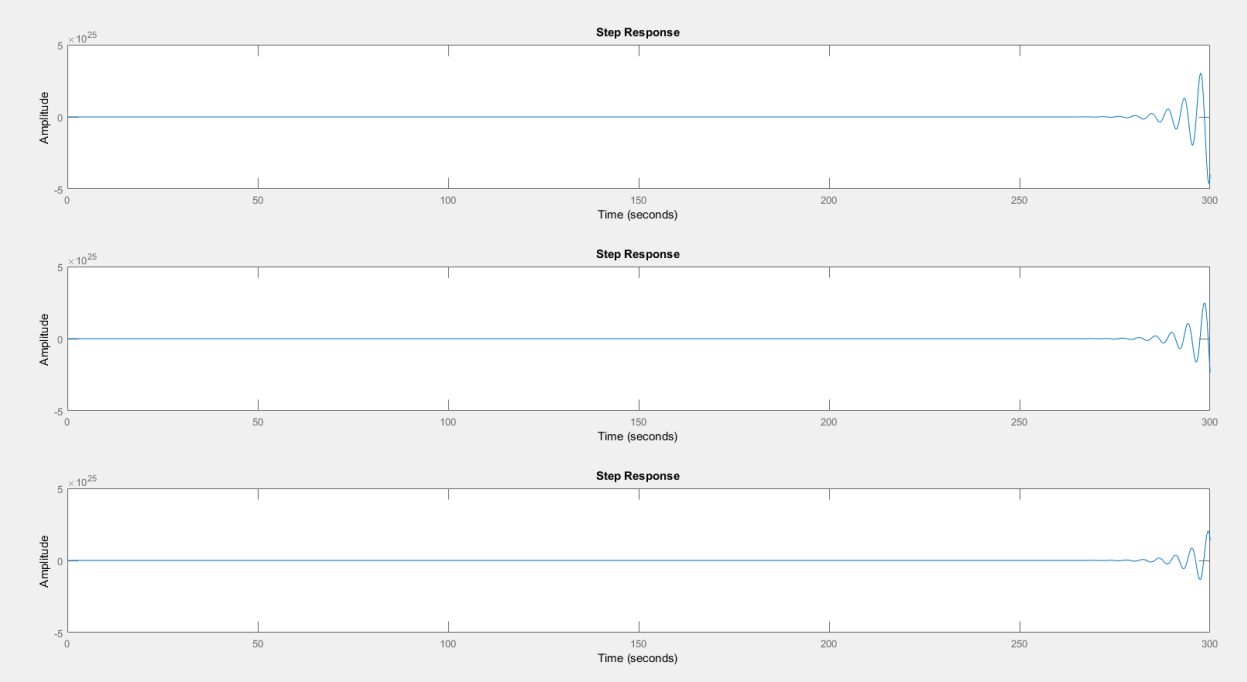
mendeklarasikan variable dalam integral effect control yaitu T, sys, Kp, Ki, s.

menghitung fungsi gain = (Kps + Ki)/s

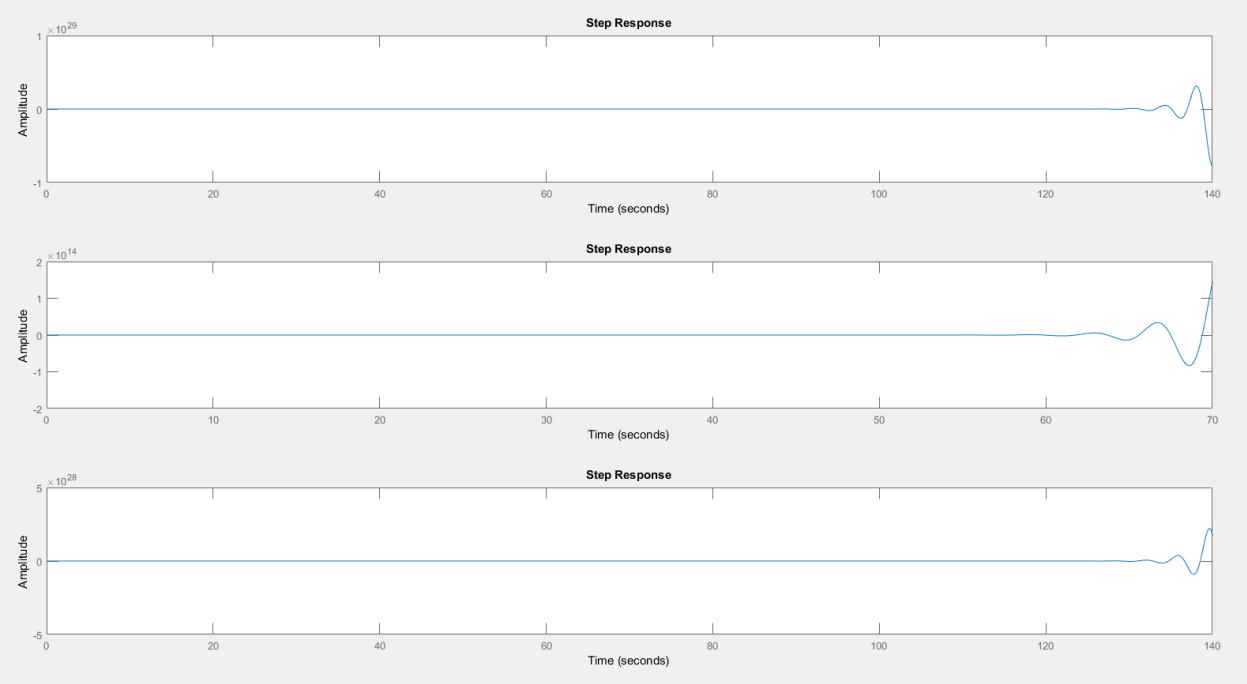
menghitung fungsi = feedback(sys*sys_c,1)

menghitung respon impulse, step dan ram

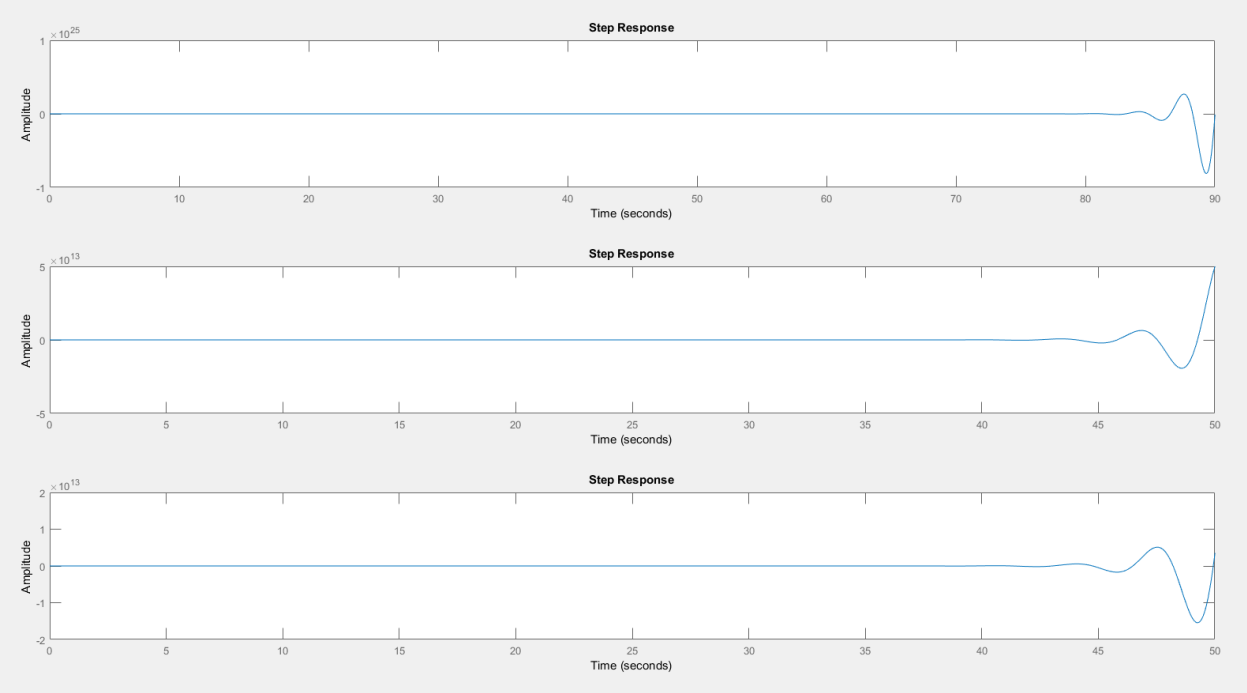
Ki =1


Step Response
Amplitude
Time (seconds)
Step Response
Amplitude
Time (seconds)
Step Response
Amplitude
Time (seconds)

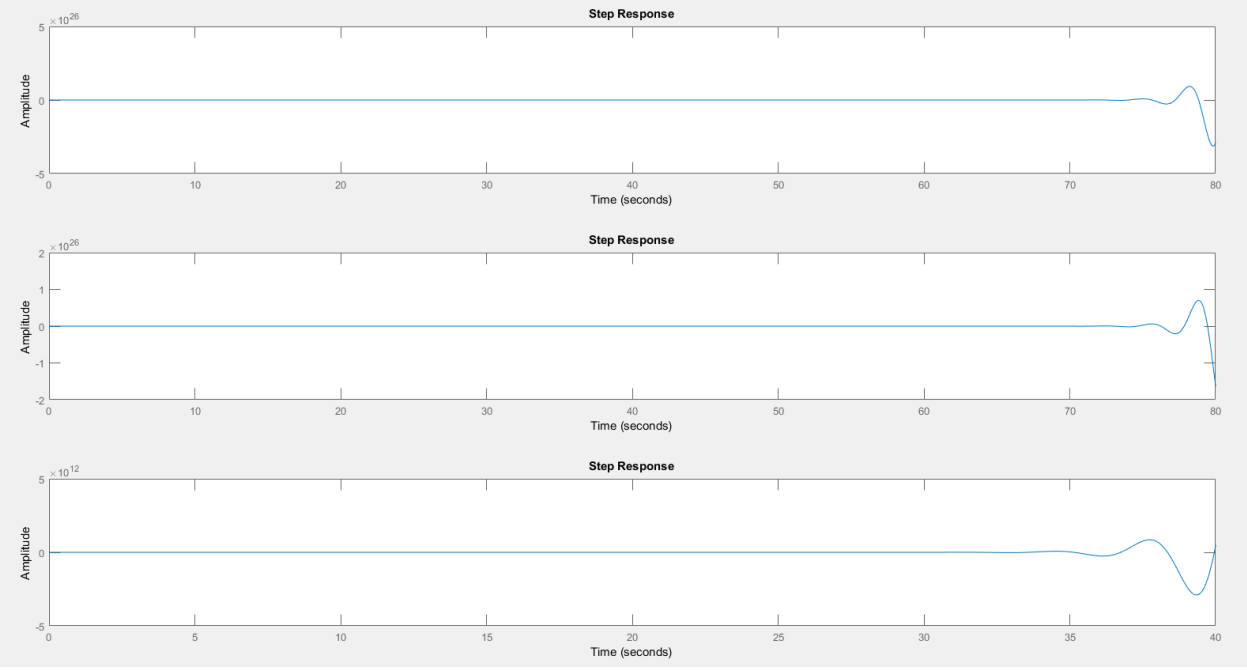
Ki = 3


Step Response
Amplitude
Time (seconds)
Step Response
Amplitude
Time (seconds)
Step Response
Amplitude
Time (seconds)

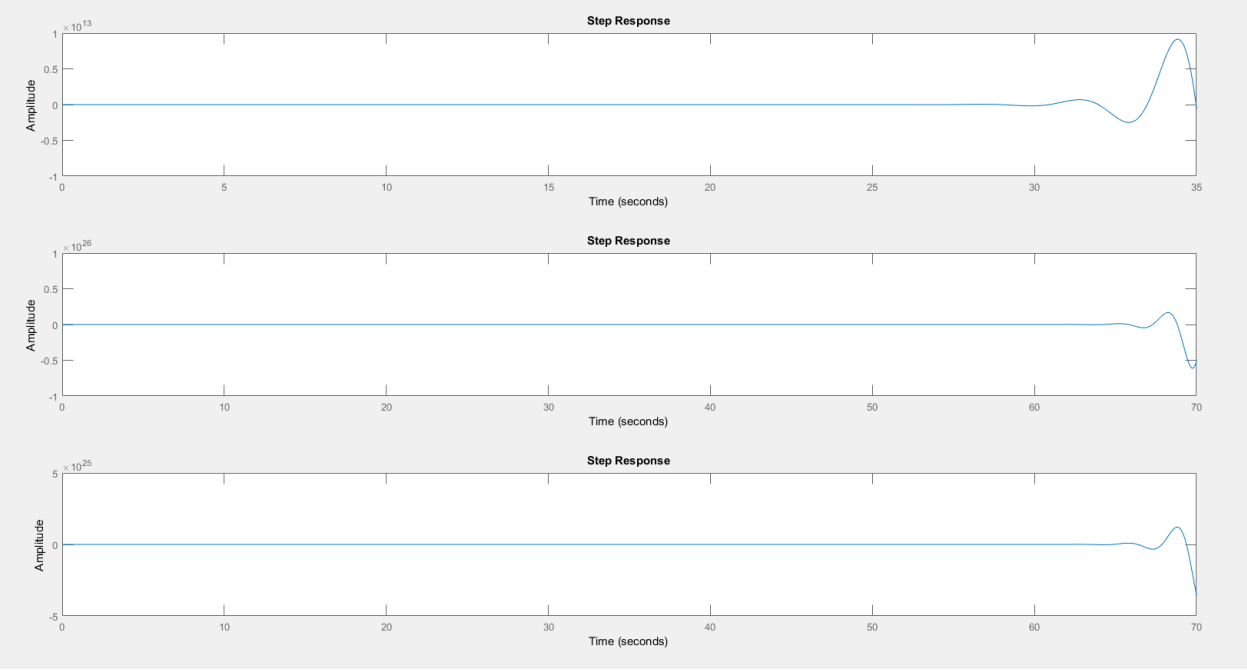
Ki =5


Step Response
Amplitude
Time (seconds)
Step Response
Amplitude
Time (seconds)
Step Response
Amplitude
Time (seconds)

Ki = 7


Step Response
Amplitude
Time (seconds)
Step Response
Amplitude
Time (seconds)
Step Response
Amplitude
Time (seconds)

Ki = 9




```
struct with fields:

      RiseTime: NaN
  SettlingTime: NaN
   SettlingMin: NaN
   SettlingMax: NaN
     Overshoot: NaN
    Undershoot: NaN
          Peak: Inf
      PeakTime: Inf
```