## 自控作業 2 E14056499 林俊佑

## Code:

```
clear all,close all,clc
k= 3
Cs=zpk([],[1],k)
Cg=zpk([],[-2],1)
CsCg=series(Cs,Cg)

sys=feedback(CsCg,1,-1)
pole=pole(sys)

t = 0:0.01:4
input = exp(t)
figure(2)
lsim(sys,input,t)
```

## Output:

```
k = 3
Cs =

3
----
(s-1)

Continuous-time zero/pole/gain model.
Cg =

1
----
(s+2)

Continuous-time zero/pole/gain model.
CsCg =
```

Continuous-time zero/pole/gain model.

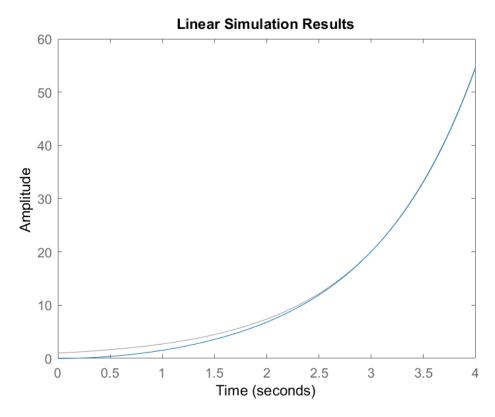
$$sys =$$

Continuous-time zero/pole/gain model.

 $pole = 2 \times 1 complex$ 

## Ans:

(a)



(b) 
$$ts = 2.5s$$