

## Tarea #2

Niger Rojas Sandoval

### Análisis de sistemas lineales

Por medio de octave, se pueden introducir dichos comandos para crear una función de transferencia.

```
>> num=[1];
>> den=[0.01 1 0];
>> go=tf(num,den)
warning: the 'tf' function belongs to the control package from Octave Forge which
you have installed but not loaded. To load the package, run 'pkg load
control' from the Octave prompt.

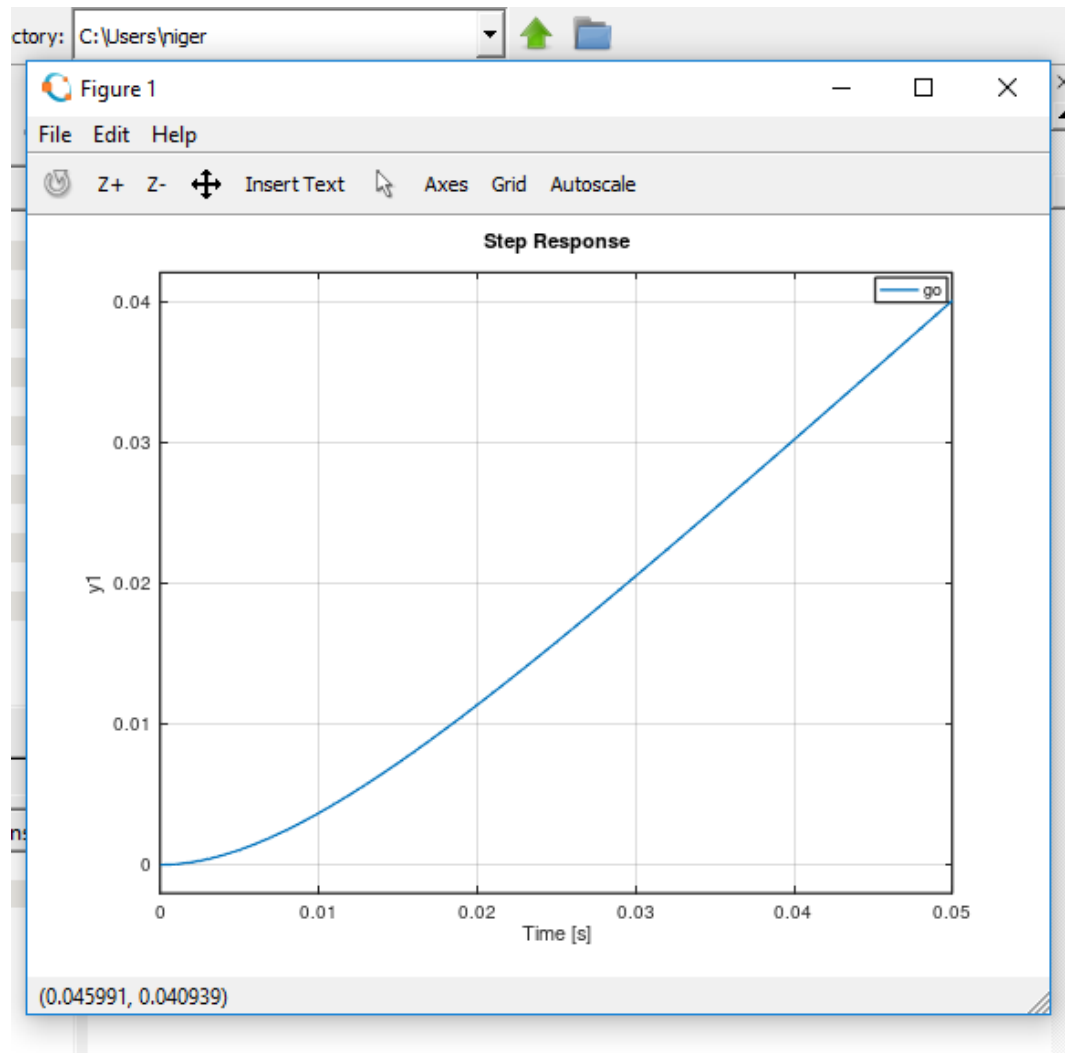
Please read <https://www.octave.org/missing.html> to learn how you can
contribute missing functionality.
error: 'tf' undefined near line 1 column 4
>> pkg load control
>> go=tf(num,den)

Transfer function 'go' from input 'u1' to output ...

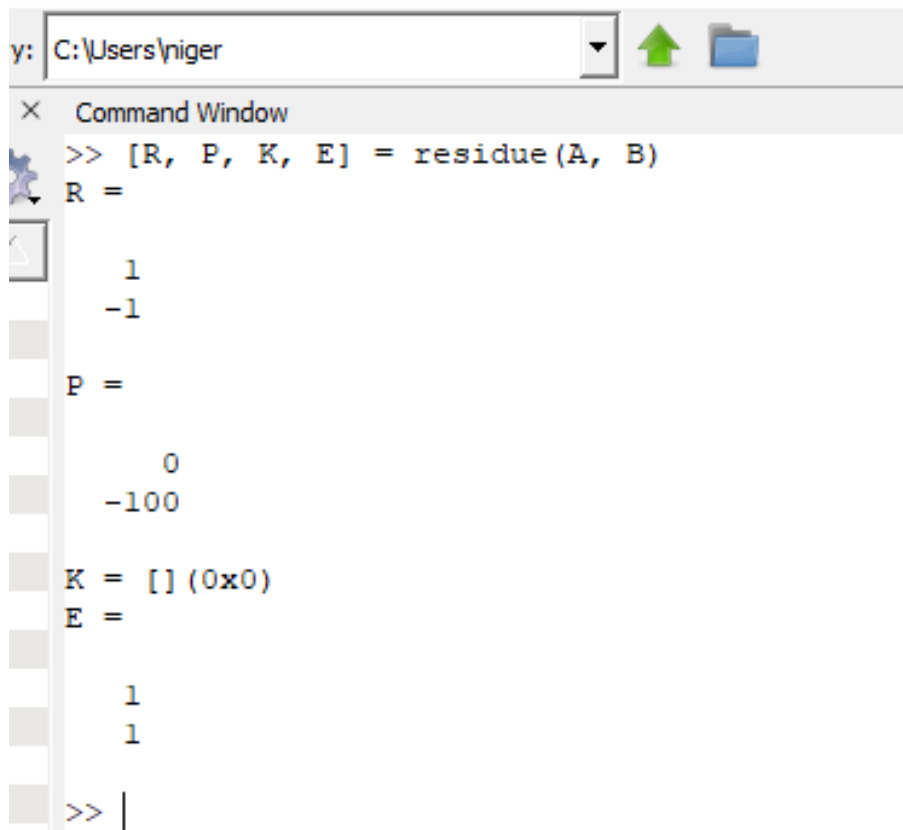
      1
yl:  ----
     0.01 s^2 + s

Continuous-time model.
>>
```

Utilizando el comando step genera el grafico de la rampa.



Ahora bien, para solucionar fracciones parciales octave facilita un comando (residue).



```
y: C:\Users\niger
>> [R, P, K, E] = residue(A, B)
R =
    1
   -1

P =
     0
  -100

K = [] (0x0)
E =
     1
     1

>> |
```