# Contents

```
% EXEMPLO 6.15

% planta
num = 1;
den = [1 1 0];
g = tf(num, den);

%constantes
ts = 0.001;
k = [1; 0.01; 1000];
t = 0:0.01:10;
u = t;
```

## CONTROLADOR

```
ganho = 10
numg = ganho.*[1 1.9]
deng = [1 4.6]
cont = tf(numg, deng)

% controlador discreto
disc = c2d(cont, 0.025, 'tustin')
```

```
ganho =

    10


numg =

    10    19


deng =

    1.0000    4.6000


cont =

  10 s + 19
  ---------
   s + 4.6

Continuous-time transfer function.


disc =

  9.681 z - 9.232
  ---------------
    z - 0.8913

Sample time: 0.025 seconds
```

```
Discrete-time transfer function.
```

## JANELAS DE VISUZLIZAÇAÕ

```
rltool(g, cont)
sisotool(g, cont)
```