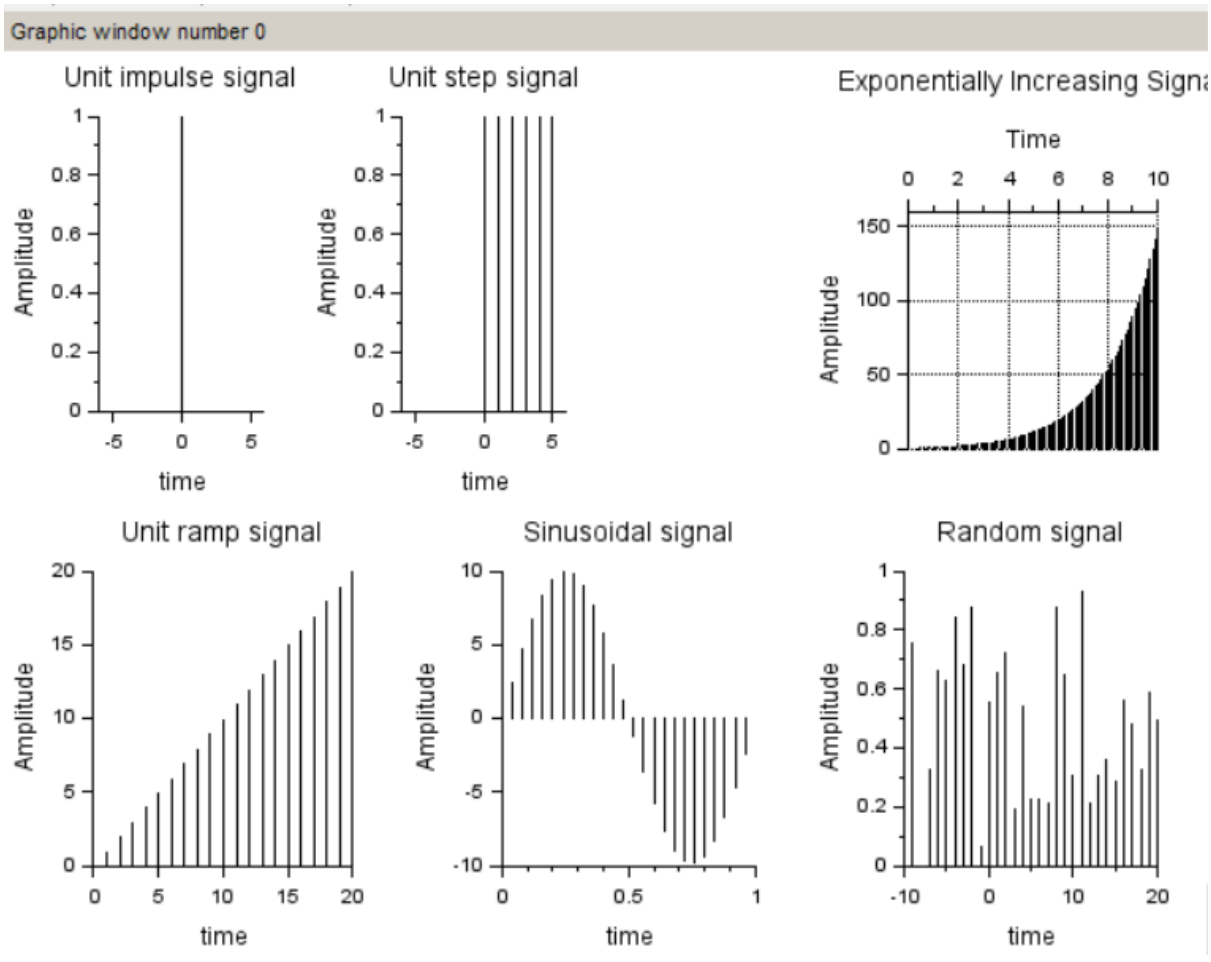
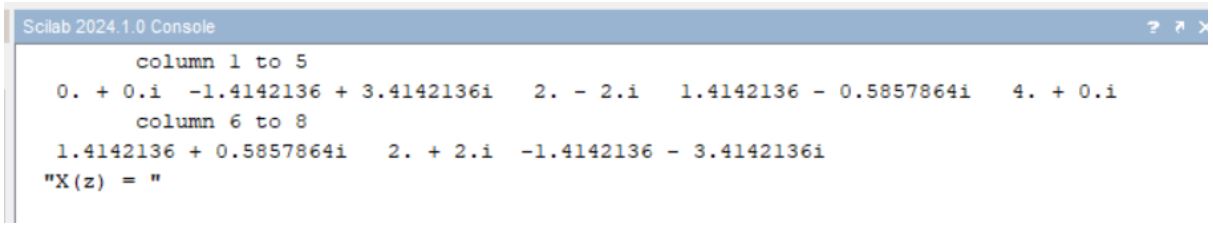
```
 56 +8s +42s^2 +6s^3 +7s^4 +s^5
 "The given characteristics equation 1-G(s)H(s)="
  1.          6.    8.
  7.          42.   56.
  28.         84.   0.
  21.         56.   0.
  9.3333333   0.    0.
  56.         0.    0.
 "Routh's table="
From Routh's table, it is clear that the system is stable.
```





18 2

```
        column 1 to 5
  20. + 0.i  -5.8284271 - 2.4142136i   0. + 0.i  -0.1715729 - 0.4142136i   0. + 0.i
        column 6 to 8
 -0.1715729 + 0.4142136i   0. + 0.i  -5.8284271 + 2.4142136i
 "X(z) = "
--\
```

19 1

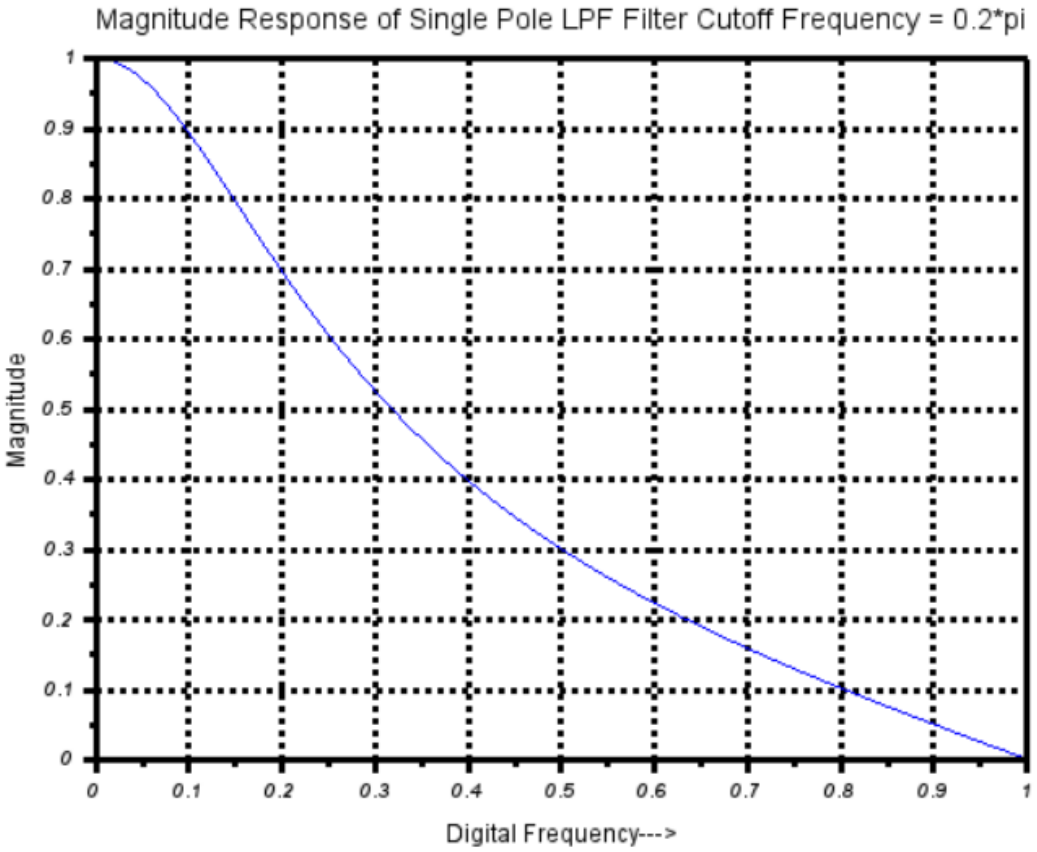
```
"Digital Transfer Function H(z):"
       column 1
"Numerator coefficients of H(z): 1.4436141"
       column 2
"Numerator coefficients of H(z): 0.169837"
       column 3
"Numerator coefficients of H(z): 1.4436141"
       column 1
"Denominator coefficients of H(z): 0.5298913"
       column 2 to 3
"Denominator coefficients of H(z): -1.1875"  "Denominator coefficients of H(z): 1"
```

19 2

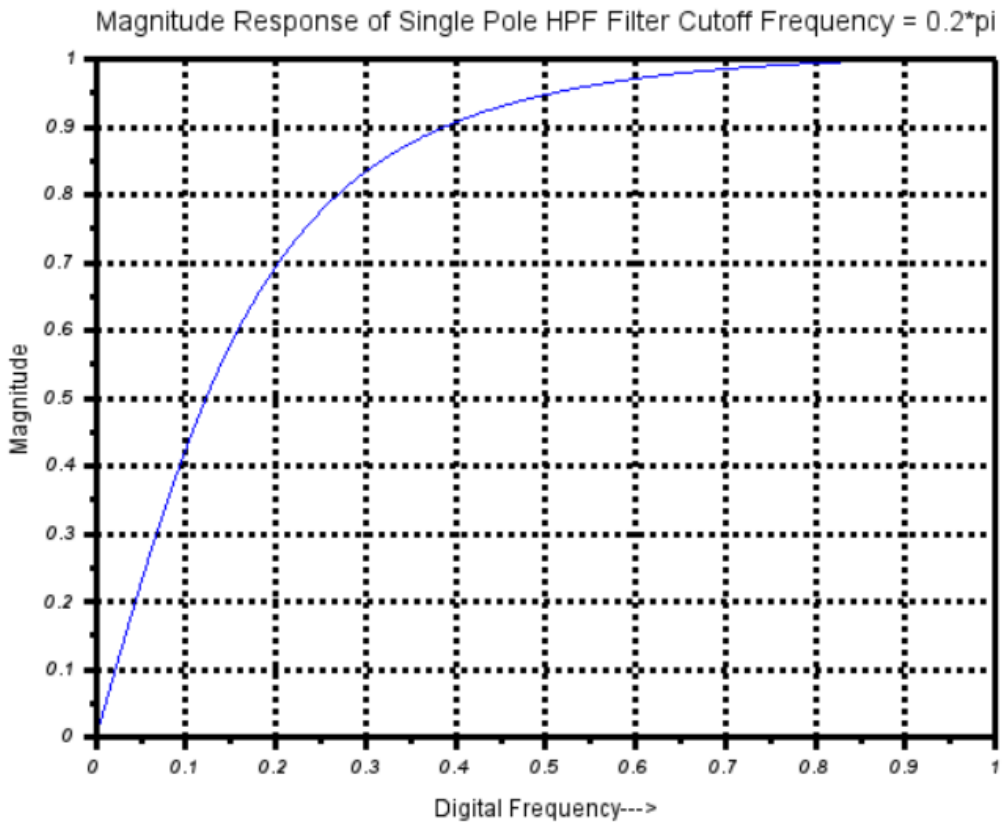
```
"Analog Transfer Function Coefficients:"
"Numerator: 1"
"Denominator: 1"  "Denominator: 10"
"Discrete Transfer Function Coefficients:"
"Numerator: -0.3678794 +z"
"Denominator: -0.3678794 +z"
```

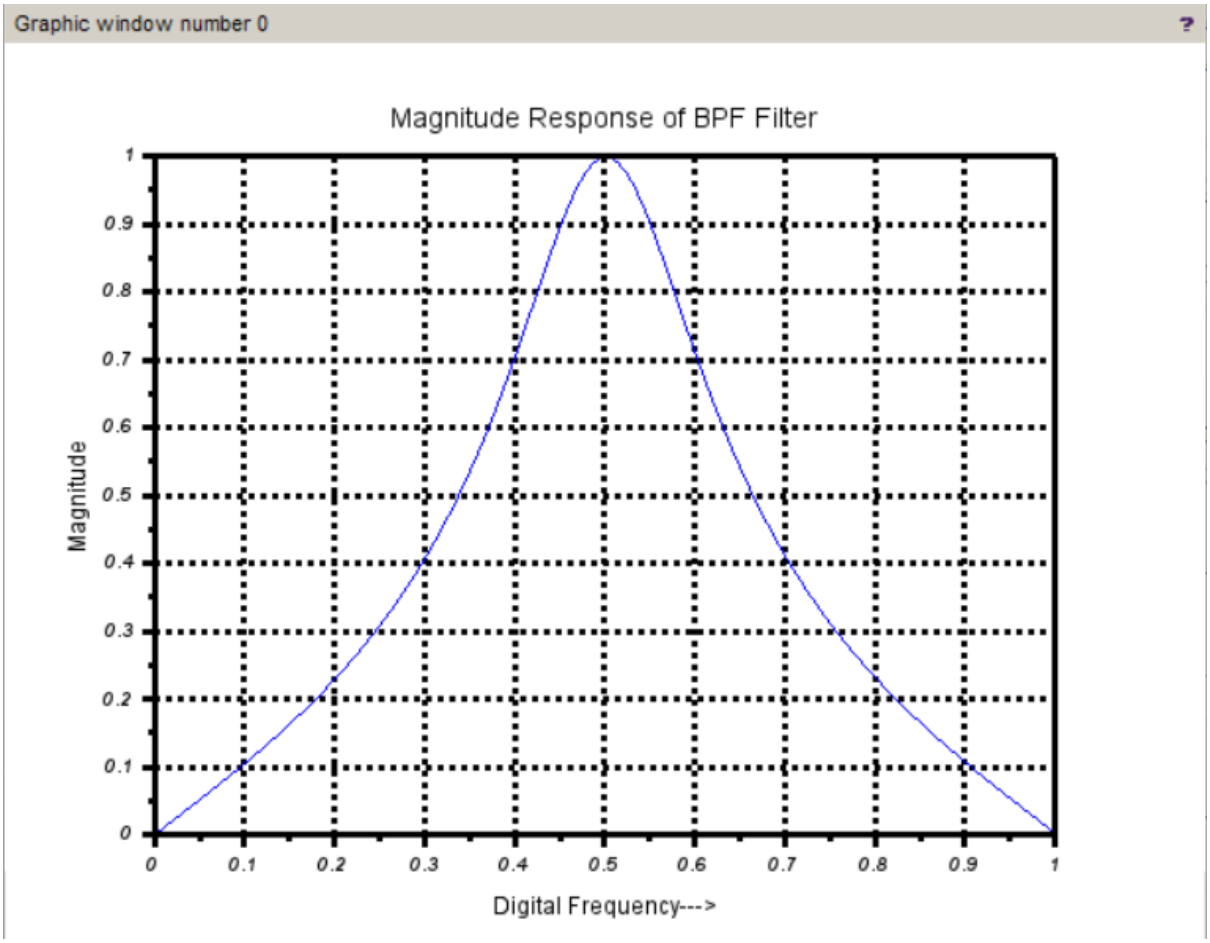
20

Graphic window number 0



Graphic window number 0 ?




Graphic window number 0
Magnitude Response of BPF Filter
Magnitude
Digital Frequency--->
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1

Graphic window number 0 ?