Bài Tập tuần 1

Đề:

Text

Description automatically generated

Giải:

Câu 1:

N=40;

num=[2 3 2];

den=[1 -0.4 0.75];

h=impz(num,den,N);

stem(h);

Graphical user interface, application

Description automatically generated

Câu 2:

N=50;

num =[0.9 -0.45 -0.35 0];

den = [1 0.71 -0.46 -0.62];

h = impz(num,den,N);

stem(h);

Graphical user interface, application

Description automatically generated

Câu 3:

Graphical user interface, application, Excel

Description automatically generated

Giải:

Hệ thống ổn định, vì mẫu giảm dần về không.

num=[1 0 3];

den=[1 2.3 1];

N=100;

h=impz(num,den,N+1);

parsum=0;

for k=1:N+1;

parsum = parsum+abs(h(k));

if abs(h(k))< 10^(-6),break,end

end

n=0:N;

stem(n,h)

Graphical user interface, application

Description automatically generated

Câu 4:

Text, letter

Description automatically generated

Giải: 4.1)

Graphical user interface, application, Word

Description automatically generated

4.2)

Graphical user interface, application, Word

Description automatically generated

Bai 2: Phân tích trong miền tần số

Đề:

Text, letter

Description automatically generated

num = [1 2 3];

den = [2 4 4];

[z,p,k] = tf2zp(num,den);

zplane(num,den)

% fvtool(num,den)

Graphical user interface

Description automatically generated

Câu 2:

num = [2 5 4];

den = [5 45 2];

[z, p, k] = tf2zp(num,den);

zplane(num,den)

% fvtool(num,den)

A picture containing text, screenshot, computer, indoor

Description automatically generated