1. 生成以下连续信号f(x)=1-3sin(t)

clc;

clear;

t=0:0.1:10;

x=1-3\*sin(t);

plot(t,x)

title('y=1-3\*sin(t)');

xlabel('t[s]');

ylabel('f[t]');



1. 离散序列x(n)={-3,2,-1,3,1,-2,1} n=0

clc;

clear;

n=-3:1:3

x=[-3,-2,-1,3,1,-2,1]

figure(2)

stem(n,x)



clc;

clear;

w0=pi/2,w1=pi,w2=3,pi/2;

t=0:0.1:10;

f0=3\*sin(w0\*t)

f1=3\*sin(w1\*t)

5.

clc;

clear;

t=-3\*pi:pi/100:3\*pi;

xt=sinc(t/pi);

plot(t,xt)

title('sinc(t)=sin(pi\*t)/pi\*t')

xlabel('t[s]');

ylabel('sinc(t)');



8．

f2=3\*sin(w2\*t)

plot(t,f0,'r',t,f1,'b',t,f2,'g')

title('f(t)=3\*sin(w\*t)')

xlabel('t[s]');

ylabel('f[t]');

