```
i))
a=5;
b=4;
sum = afb;
5ub=b-a;
output:
sum = 9;
sub=-1;
2) Armay
a=[123456789107
output:
a=[123456789]67
a=1:2:10
output:
a=13579.
2 = 0 : .1 : 1
output:
2=0.0.1000 0.2000 0.300 0.400
0.500 0.600 0.7000 0.8000 0.900
1.0000.
```

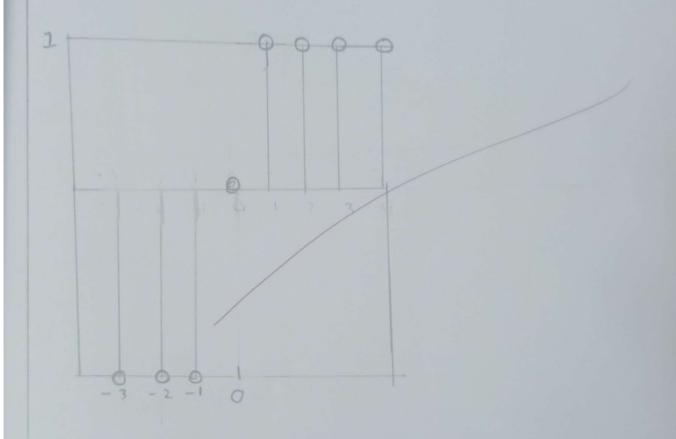
```
3) c = 0: 0:1:7
output:
column 1 through 8:
0 0.1000 0.2000 0.3000 0.4000 0.5006
4) x = [1 - 2 4 5];
n=[0 123];
fisure (7).
stem: (n,n)
output:
```

signum function:

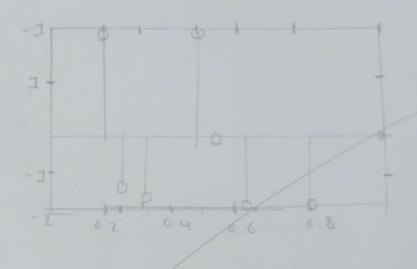
Input: fisure (1)

input: stem chim)

output:



1. -) A = 2 -) f = 3 -) t = 0:0.1:1 -) nt = A Asin (2 * pi * f * E) -stem (t : nt).



2) Pi ans=3.1416

-) A = 2

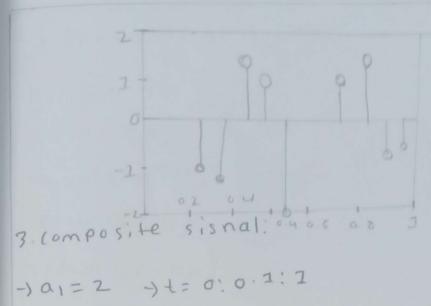
-> f = 3

-) t= 0:01:1.

-> x + 2 = A* (05 (2 x p | x f x + 2)

fisure (2)

stam (+2, n+2).



-> 92= 3

-> 9 = 4

-) f1 = 3

-)fz = 10

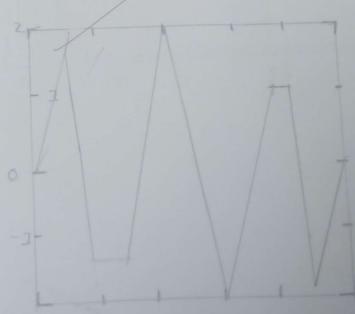
-) f3 = 30

-) n+1 = a 1 x sin (2 x pi x f 1 x E);

->n+2; az+sin(2*Pifz*+);

4×+3 = a3 * sin (2* Pi*+3 * E).

-) x t = x f 1 + x + 2 x + f 3).



4. Exponential signal:

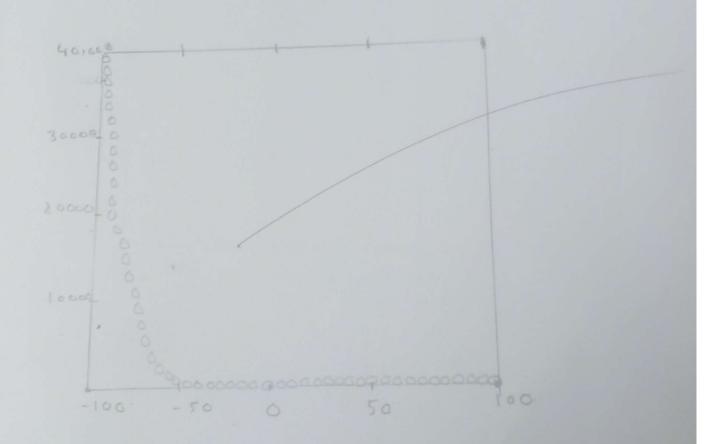
n=-100:10

alpha=0.9;

nn=alpha^n;

-fisune(4)

-stem(n,nn).



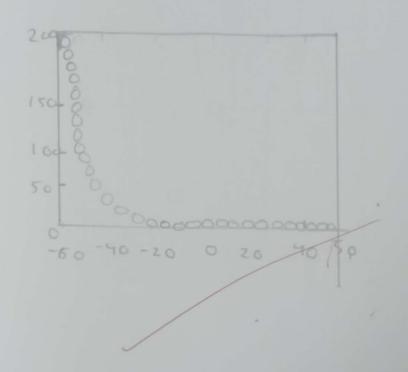
4. Exponential sisnal.

n=-50: 50;

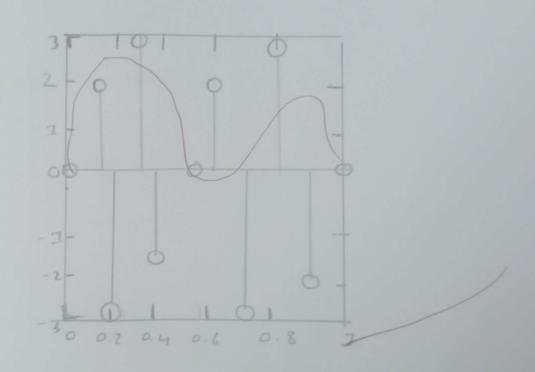
alpha=0.9:

nn: alpha. nn;

stm(n, nn);



1. sin wave: A = 3; f = 4; t = 0:0.1:1; nt= a*sin(2*pi *f * E); stim (t, nt);



```
2) cos ware.

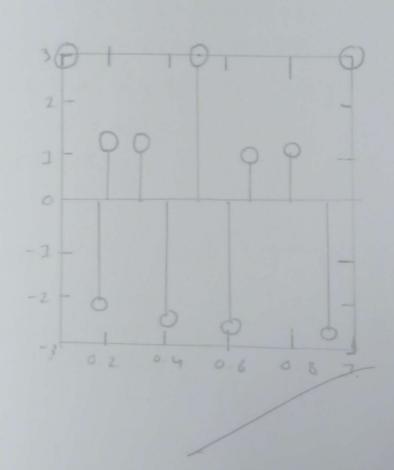
A=3;

f=4;

t=0:0.1:1;

nt= a*cos (2*Pi*f*t);

stem (tirt);
```



```
3. composite signal:

a1 = 2;

a1 = 4;

t = 0:0007:7;

f1 = 2;

f2 = 8;

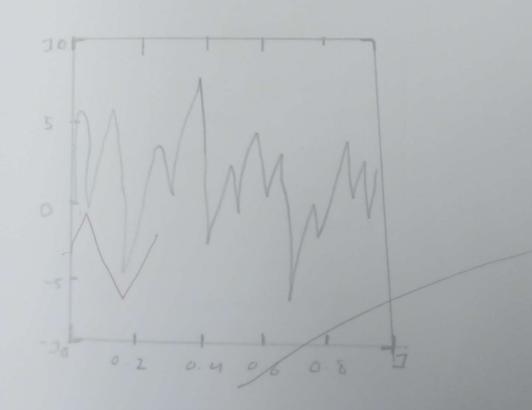
n+1 = a1 *sin(2 * pi * f1 * t)

n+2 = a2 * sin(2 * pi * f2 * t)

n+3 = a3 * fin(2 * pi * f3 * t).

nt = n+1 + n+2 + n+3;

plot(+in+1);
```



```
#unit step signal.

n=0: 1:18;

un=[ones(1)];

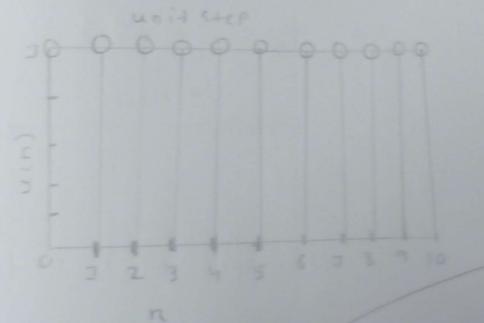
subplot(2:2:1);

stem (n,un);

title ("unit-step signal");

u label ("n");

y label ("u(h)");
```



```
| #uch-2)

n=-5:1:5;

unl=[zeros(2,7), ones(2,4)];

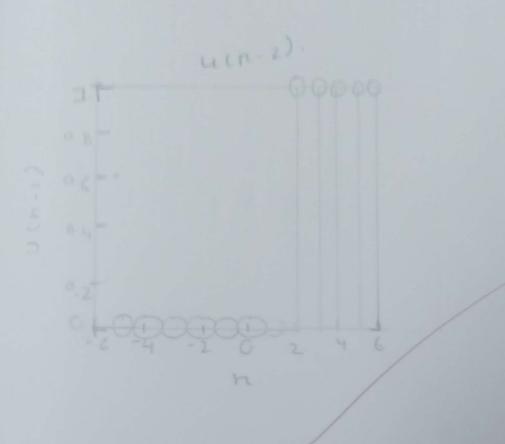
subplot(2,2,2);

stem(n, un1);

title("uch-2)");

xlabel("n");

ylabel("uch-2)");
```



ucn) - uch-z). [1

y=un-un1;

subplot { 2,2,3);

stem (n,y);

+i+le ("Ucn)-Ucn-2)");

xlabel ("Ucn)");

ylabel ("Ucn-2)");

[un=[ones (3,61])] tun==[renres (3,21,6nes (2) from previous +wo

