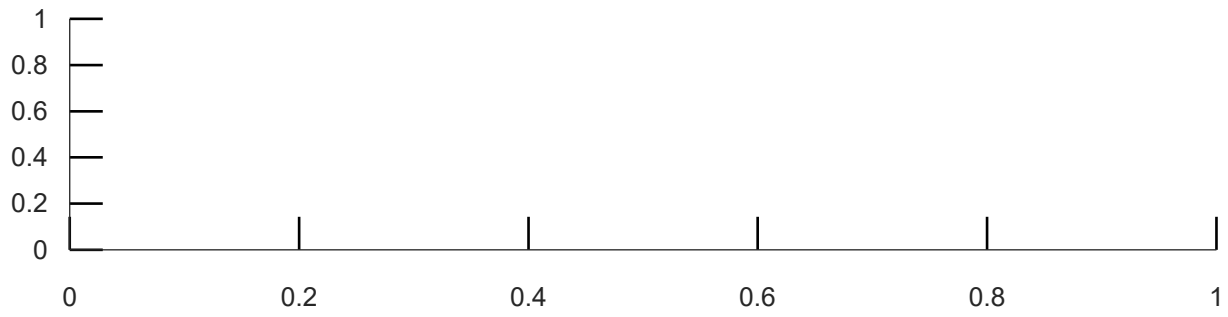
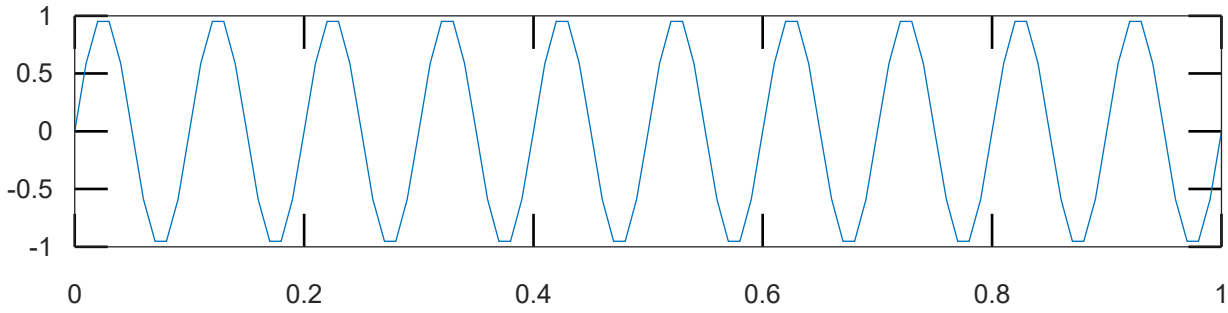
Octave Online

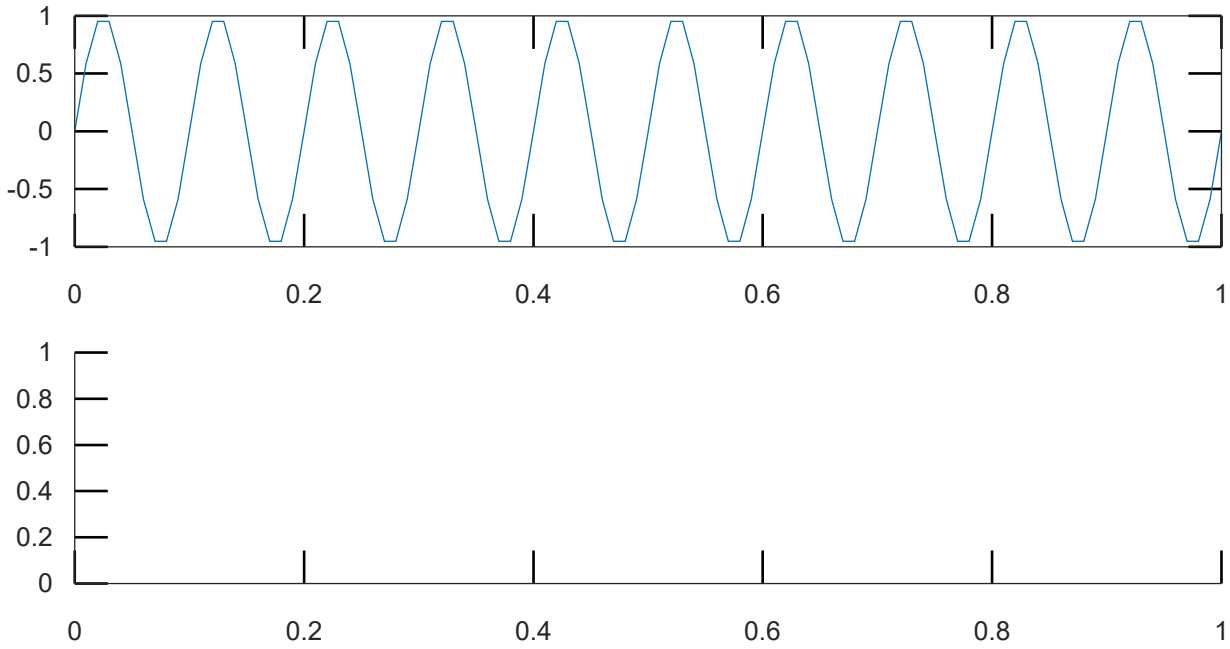
```
octave:4> #sin wave
octave:4> t=0:0.01:1;
octave:5> f=10;
octave:6> xt=sin(2*pi*f*t);
octave:7> subplot(3,1,1);
```

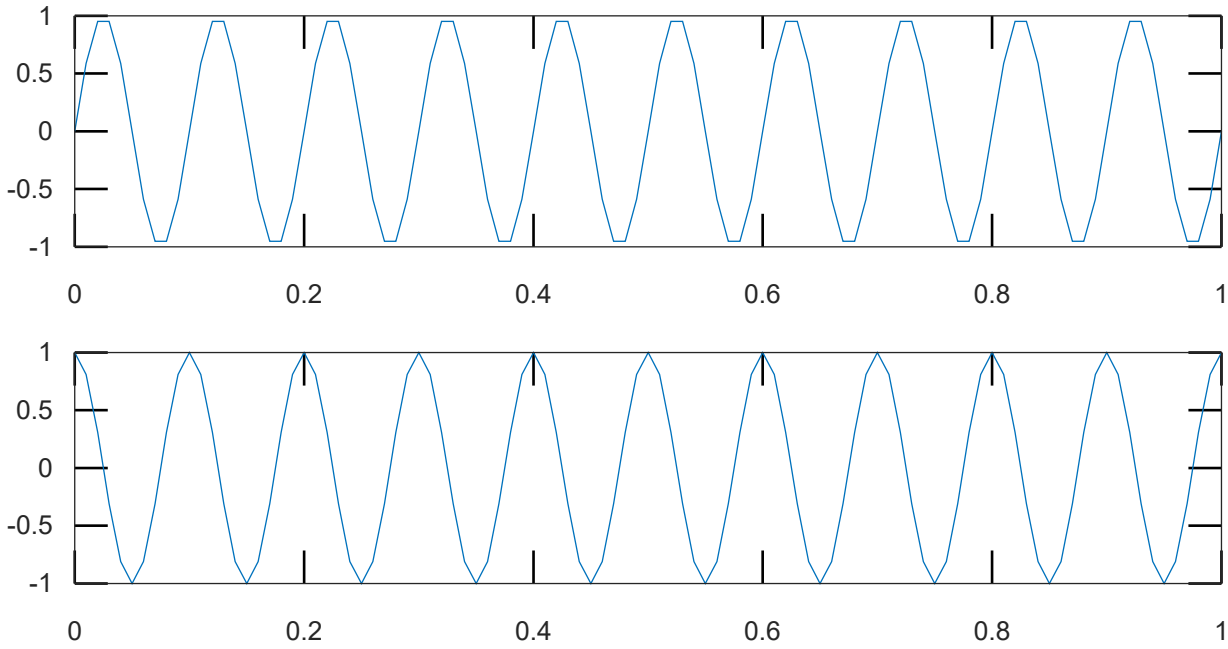



```
octave:8> plot(t,xt);
```

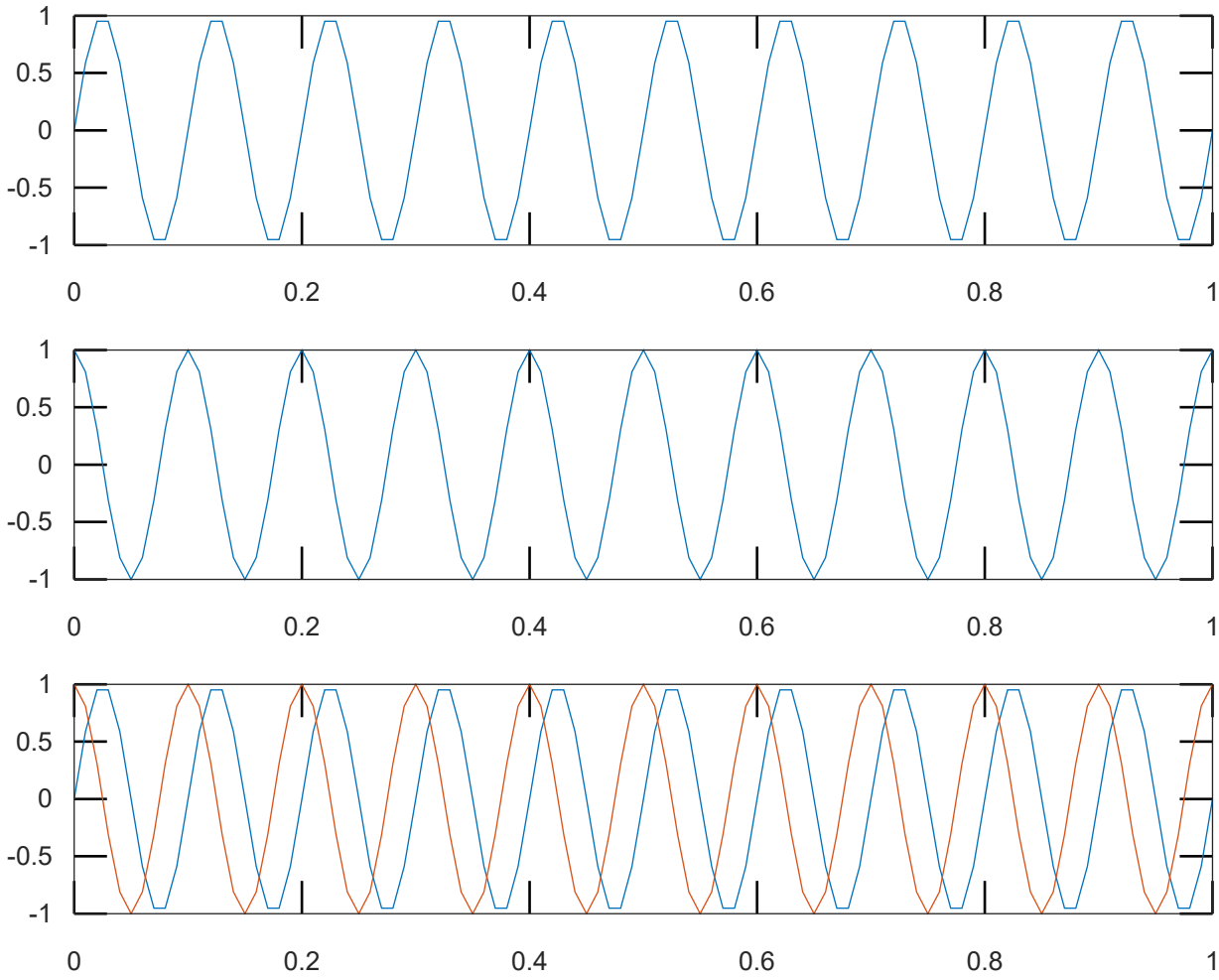


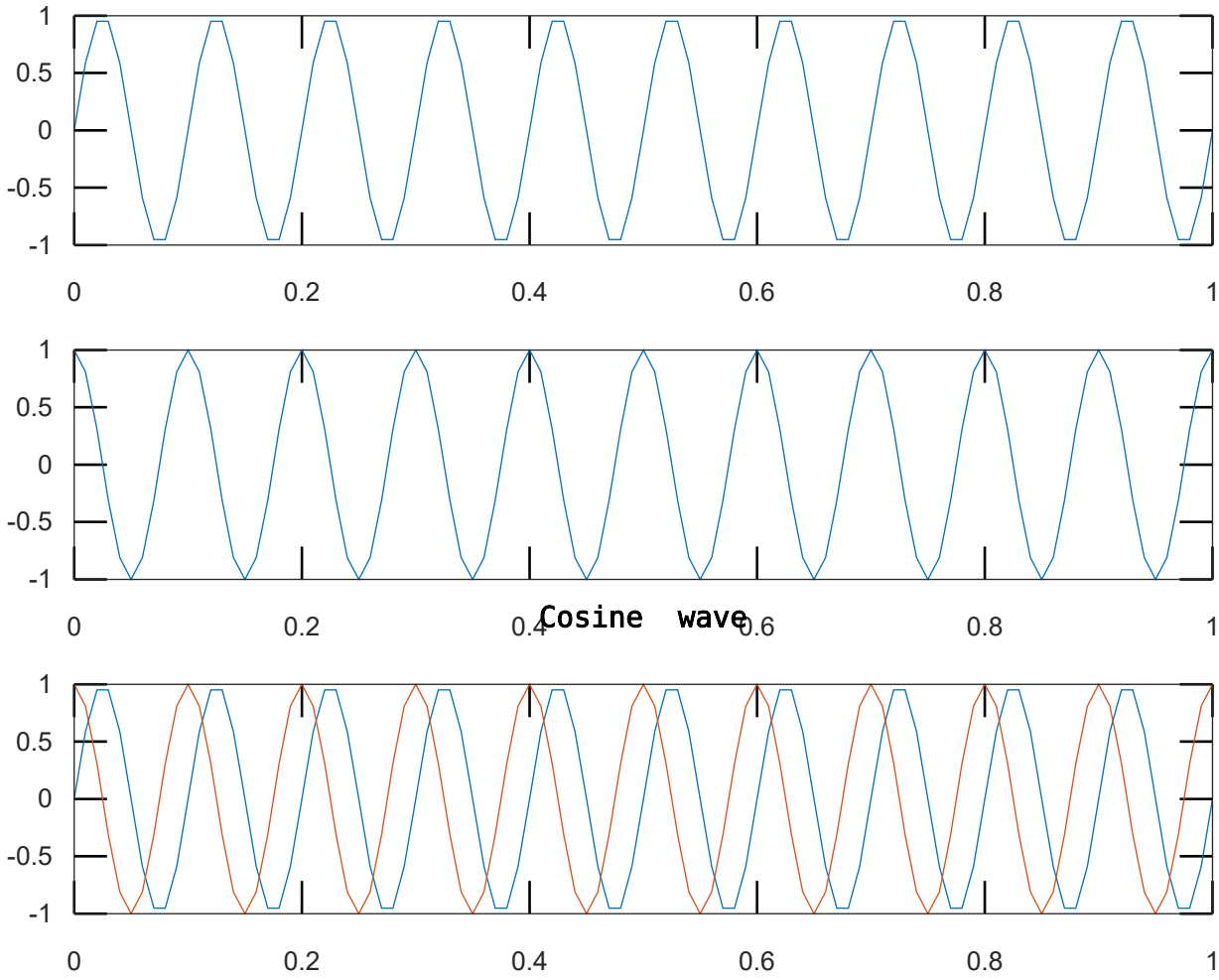

```
octave:9> #cos wave
t=0:0.01:1;
f=10;
xt1=cos(2*pi*f*t);
subplot(3,1,2);
plot(t,xt1);
```


1
0.5
0
-0.5
-1
0
0.2
0.4
0.6
0.8
1
1
0.8
0.6
0.4
0.2
0
0
0.2
0.4
0.6
0.8
1

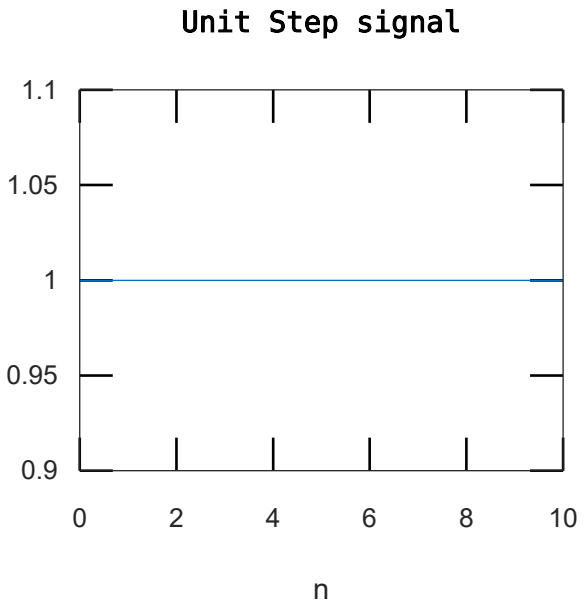


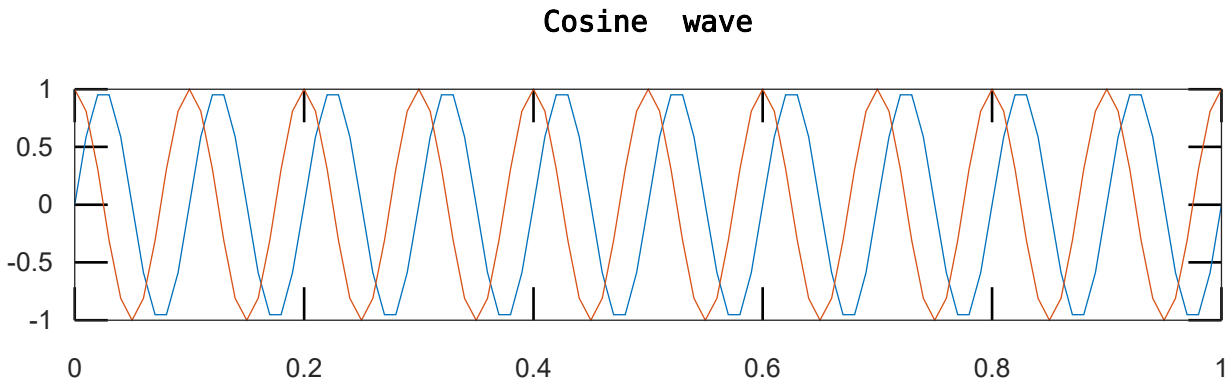

```
octave:14> #cosine wave
subplot(3,1,3);
plot(t,xt,t,xt1);
title("Cosine  wave");
```


1
0.5
0
-0.5
-1
0
0.2
0.4
0.6
0.8
1

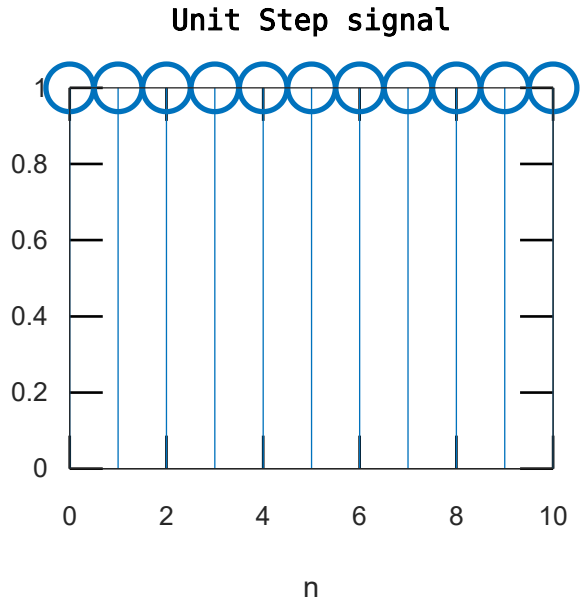


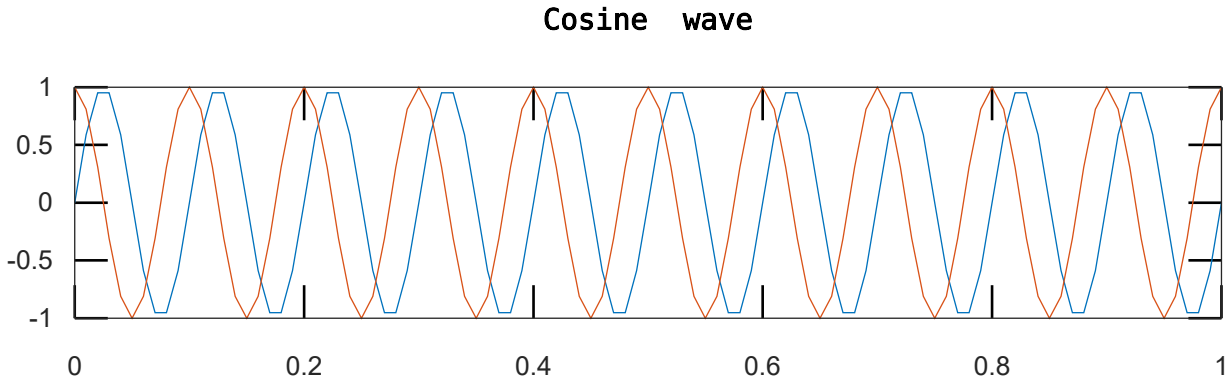

```
octave:17> #unit step signal
n=0:1:10;
un=[ones(1,11)];
subplot(2,2,1);
plot(n,un);
title("Unit Step signal");
xlabel("n");
```

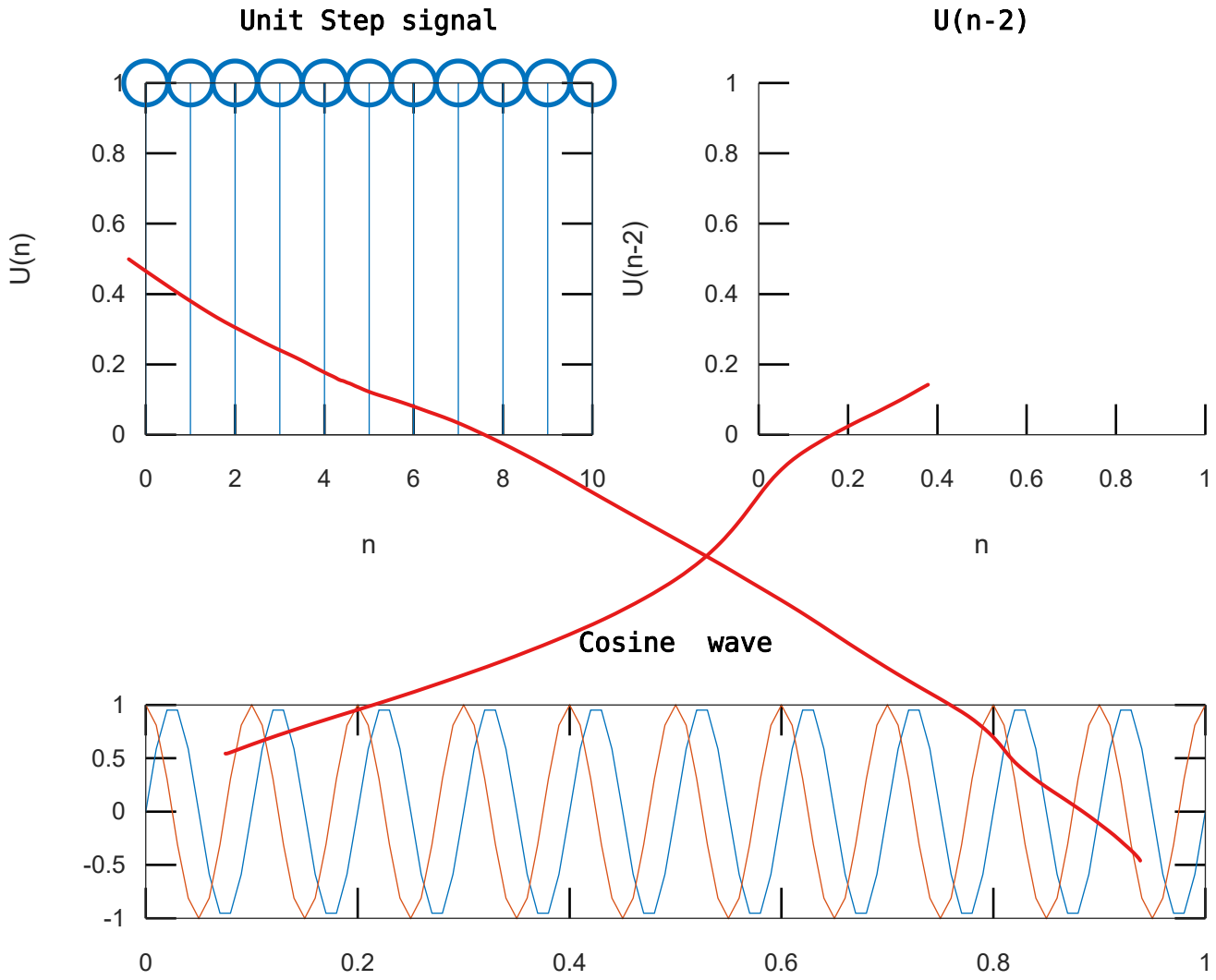




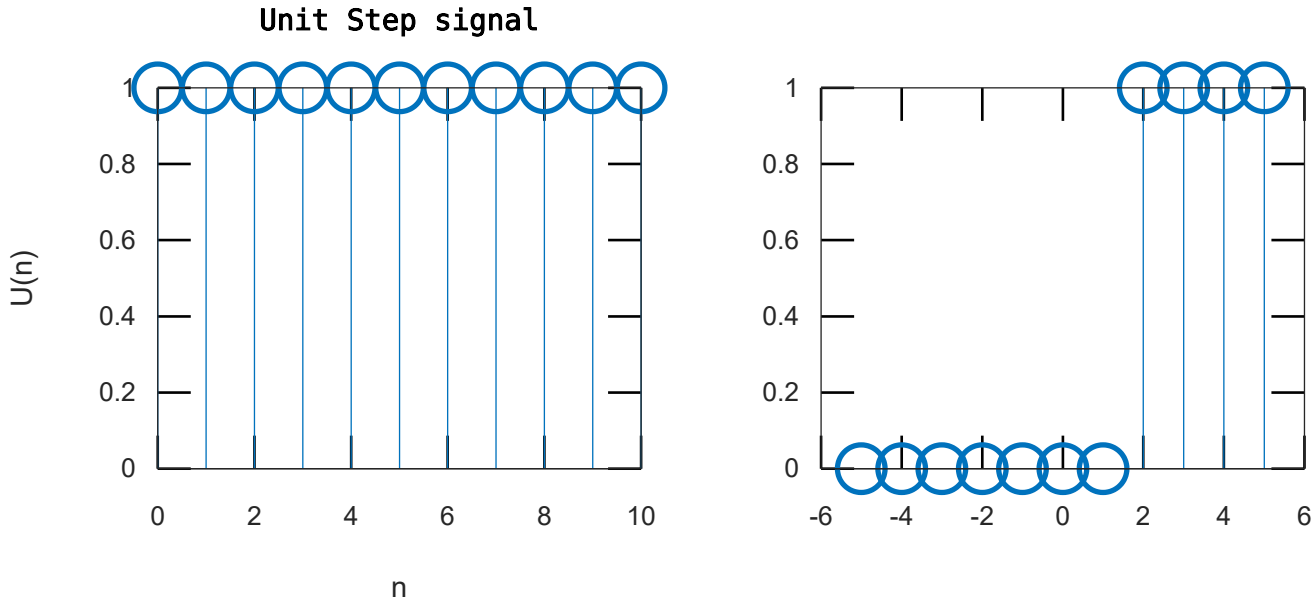

```
octave:23> #unit step signal
n=0:1:10;
un=[ones(1,11)];
subplot(2,2,1);
stem(n,un);
title("Unit Step signal");
xlabel("n");
ylabel("U(n)");
```

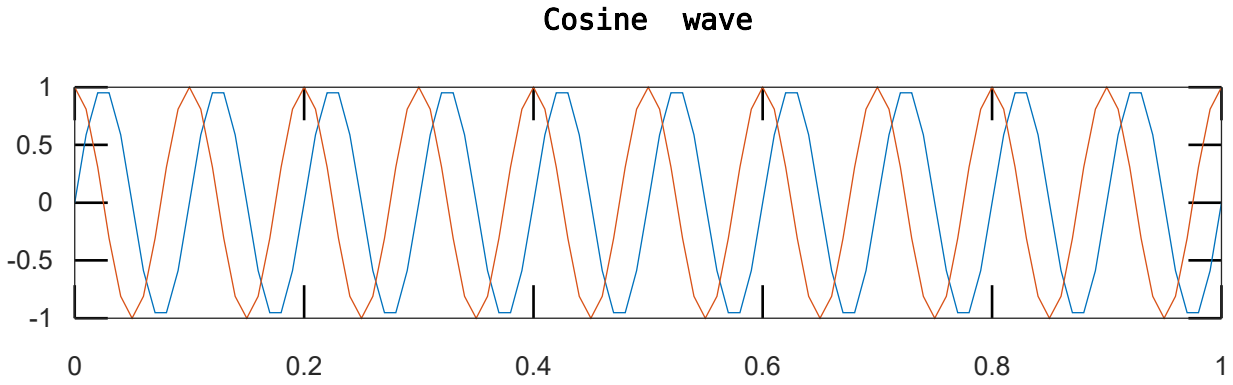

Unit Step signal
1
0.8
0.6
0.4
0.2
0
0
2
4
6
8
10
n

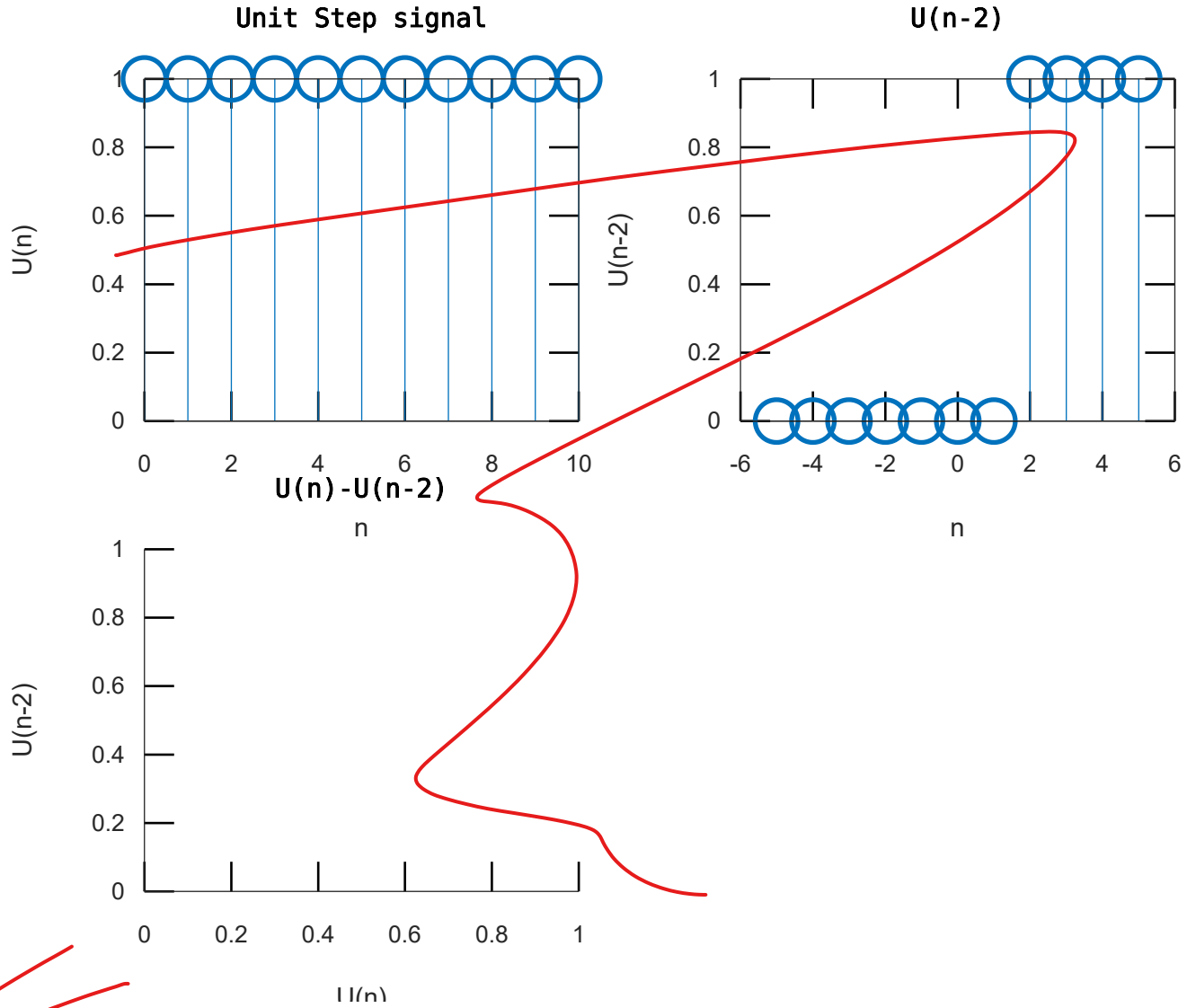

Cosine wave
1
0.5
0
-0.5
-1
0
0.2
0.4
0.6
0.8
1



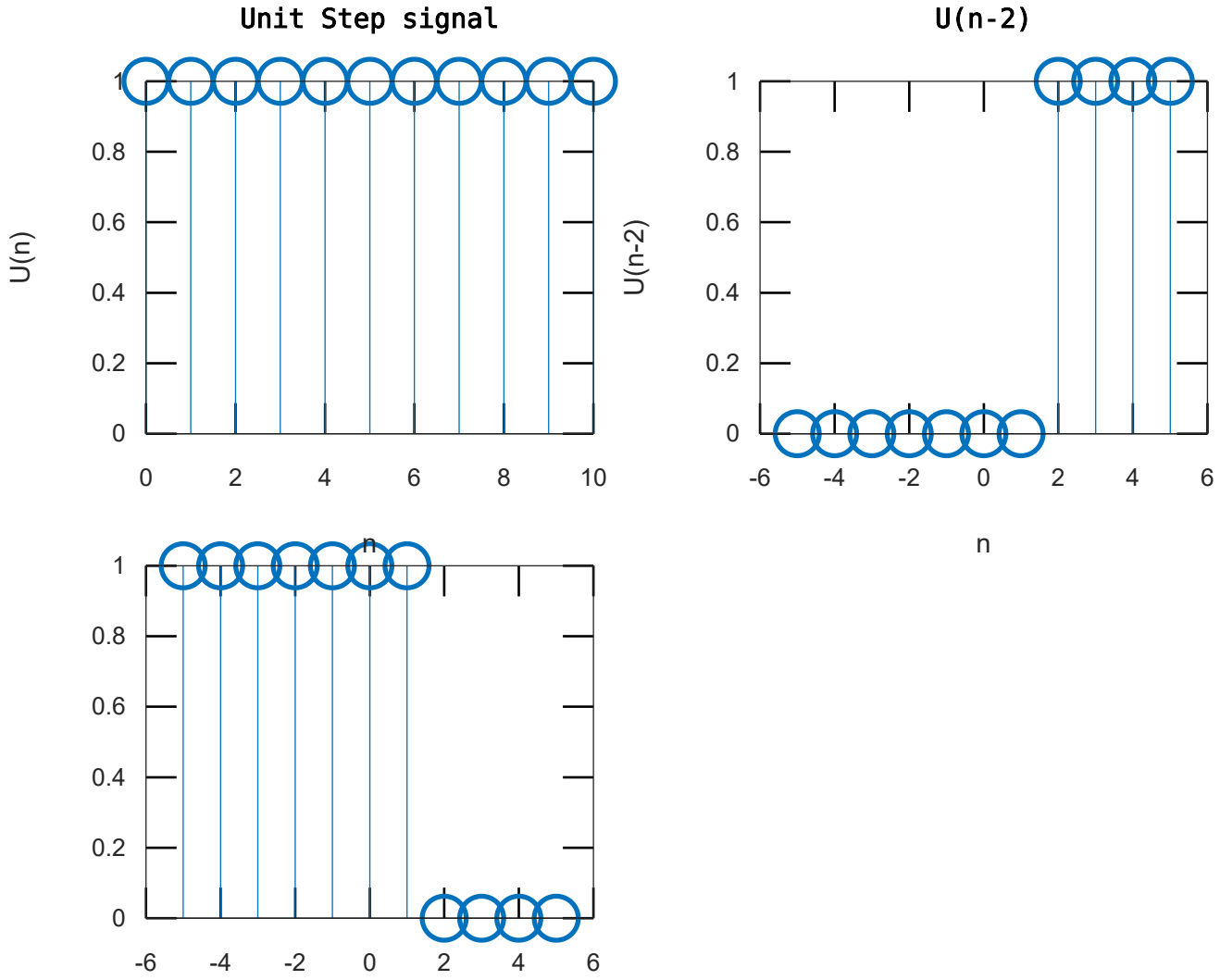

```
octave:36> #shifting u(n-2)
n=-5:1:5;
un1=[zeros(1,7),ones(1,4)];
subplot(2,2,2);
stem(n,un1);
title("U(n-2)");
xlabel("n");
ylabel("U(n-2)");
```


Unit Step signal
U(n)
n
1
0.8
0.6
0.4
0.2
0
0
2
4
6
8
10
-6
-4
-2
0
2
4
6


Cosine wave
1
0.5
0
-0.5
-1
0
0.2
0.4
0.6
0.8
1




```
octave:27> #u(n)-u(n-2)
y=un-un1;
subplot(2,2,3);
stem(n,y);
title("U(n)-U(n-2)");
xlabel("U(n)");
ylabel("U(n-2)");
```


Unit Step signal
U(n)
n
U(n-2)
U(n-2)
n