```
% Title: To plot cosine and tangent wave
% Developed by : Arpan Adhikari
% Date : 24th Nov 2025

t = -pi : 0.1 : pi;
x = cos(t);
w = tan(t);

subplot(2,2,1);
plot(t,x);
grid on;
xlabel('Time');
ylabel('Amplitude');

subplot(2,2,2);
stem(t,x);
grid on;
xlabel('Discrete Time');
ylabel('Amplitude');

subplot(2,2,3);
plot(t,w);
grid on;
xlabel('Time');
ylabel('Amplitude');

subplot(2,2,4);
stem(t,w);
grid on;
xlabel('Discrete Time');
ylabel('Amplitude');
```
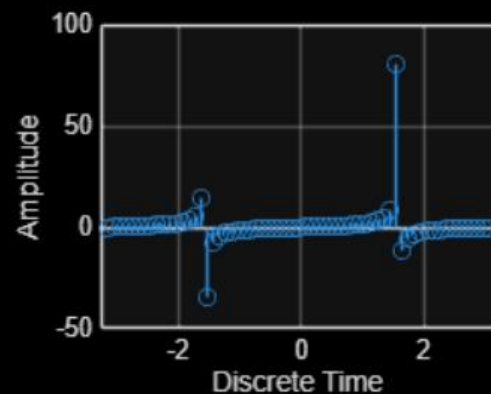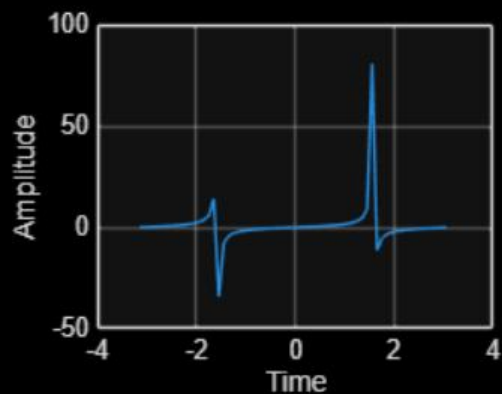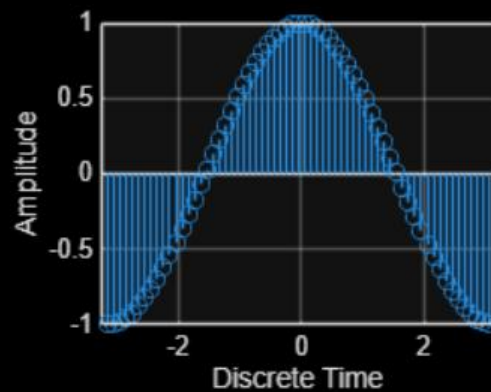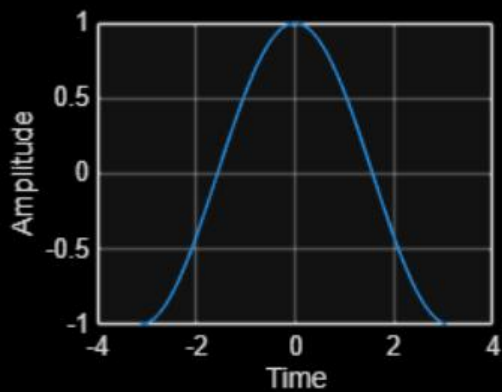
```
% Title : To plot unit signal, impulse signal, ramp signal
% Developed by : Arpan Adhikari
% Date : 24th Nov 2025

t = -10:10;
x = (t>=0);
w = (t==0);
v = t;

% Unit Step Signal
subplot(3,1,1);
stem(t,x);
grid on;
axis([-11 11 -0.1 2])
xlabel('Time');
ylabel('Amplitude');

% Impulse Signal
subplot(3,1,2);
stem(t,w);
grid on;
axis([-11 11 -0.1 2])
xlabel('Time');
ylabel('Amplitude');

% Ramp Signal
subplot(3,1,3);
stem(t,v);
grid on;
axis([-11 11 -0.1 8])
xlabel('Time');
ylabel('Amplitude');
```