

**PROGRAM :**

```
close()
clear()
% ct impulse signal
subplot(6,3,1);
x = -5: 1 : 5;
y = [zeros(1,5), ones(1,1), zeros(1,5)];
stem(x,y);
xlabel('t');
ylabel('Amplitude');
title('impulse');

% ct unit-step signal
subplot(6,3,2);
x = 0 : 1 : 5;
y = [ones(1,6)];
plot(x,y);
xlabel('t');
ylabel('Amplitude');
title('ct unit-step');

% dt unit-step signal
subplot(6,3,3);
x = -5 : 1 : 5;
y = [zeros(1,5), ones(1,6)];
stem(x,y);
xlabel('t');
ylabel('Amplitude');
title('dt unit-step');

% ct ramp signal
subplot(6,3,4);
x = 0 : 1 : 5;
y = x;
plot(x,y);
xlabel('t');
ylabel('Amplitude');
title('ct ramp');

% dt ramp signal
subplot(6,3,5);
x = 0 : 1 : 5;
y = x;
stem(x,y);
xlabel('t');
ylabel('Amplitude');
```

```
title('dt ramp');

% ct parabolic signal
subplot(6,3,6);
x = -5 : 1 : 5;
y = 0.5*power(x,2);
plot(x,y);
xlabel('t');
ylabel('Amplitude');
title('ct parabolic');

% dt parabolic signal
subplot(6,3,7);
x = -5 : 1 : 5;
y = 0.5*power(x,2);
stem(x,y);
xlabel('t');
ylabel('Amplitude');
title('dt parabolic');

% ct sine signal
subplot(6,3,8);
x = -5 : 0.1 : 5;
y = sin(x);
plot(x,y);
xlabel('t');
ylabel('Amplitude');
title('ct sine');

% dt sine signal
subplot(6,3,9);
x = -5 : 0.5 : 5;
y = sin(x);
stem(x,y);
xlabel('t');
ylabel('Amplitude');
title('dt sine');

% ct sine signal
subplot(6,3,10);
x = -5 : 0.1 : 5;
y = cos(x);
plot(x,y);
xlabel('t');
ylabel('Amplitude');
title('ct cosine');

% dt cosine signal
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```
subplot(6,3,11);  
x = -5 : 0.5 : 5;  
y = cos(x);  
stem(x,y);  
xlabel('t');  
ylabel('Amplitude');  
title('dt cosine');  
  
% ct exponential signal  
subplot(6,3,12);  
x = 0 : 0.1 : 3;  
y = exp(x);  
plot(x,y);  
xlabel('t');  
ylabel('Amplitude');  
title('ct exponential');  
  
% dt exponential signal  
subplot(6,3,13);  
x = 0 : 0.5 : 3;  
y = exp(x);  
stem(x,y);  
xlabel('t');  
ylabel('Amplitude');  
title('dt exponential');  
  
% ct sinc signal  
subplot(6,3,14);  
x = -5 : 0.1 : 5;  
y = sinc(x);  
plot(x,y);  
xlabel('t');  
ylabel('Amplitude');  
title('ct sinc');  
  
% dt sinc signal  
subplot(6,3,15);  
x = -5 : 0.5 : 5;  
y = sinc(x);  
stem(x,y);  
xlabel('t');  
ylabel('Amplitude');  
title('dt sinc');  
  
% ct square signal  
subplot(6,3,16);  
x = -3 : 0.01 : 3;  
y = square(x);
```

```

plot(x,y);
xlabel('t');
ylabel('Amplitude');
title('ct square');

```

```

% ct square signal
subplot(6,3,17);
x = -3 : 0.5 : 3;
y = square(x);
stem(x,y);
xlabel('t');
ylabel('Amplitude');
title('dt square');

```

### OUTPUT :

