
CHAPTER 2

Discrete-Time Signals and Systems

Tutorial Problems

1. (a) MATLAB script:

```
% P0201a: Generate and plot unit sample
close all; clc
n = -20:40; % specify support of signal
deltan = zeros(1,length(n)); % define signal
deltan(n==0)=1;
% Plot:
hf = figconfig('P0201a','small');
stem(n,deltan,'fill')
axis([(min(n)-1,max(n)+1,min(deltan))-0.2,max(deltan)+0.2])
xlabel('n','fontsize',LFS); ylabel('delta[n]','fontsize',LFS);
title('Unit Sample \delta[n]','fontsize',TFS)
```

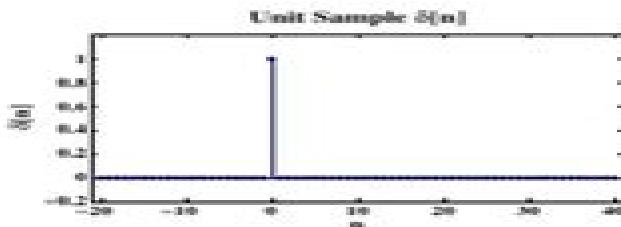


FIGURE 2.1: unit sample $\delta[n]$.

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