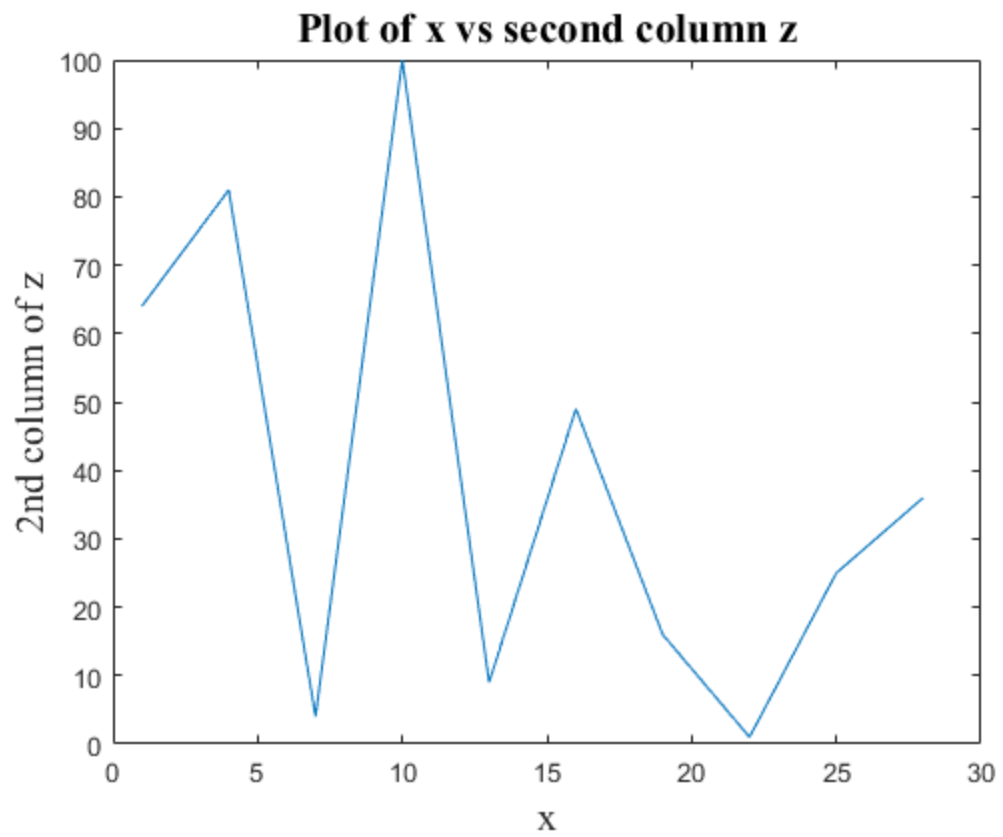

```
%HW1-Prbl
%Navneet Singh(nsinghl@andrew.cmu.edu)

clc          %clear screen
clear all % clearing all stored variables
close all %close previous plots

x = (1:3:30);          % generating a vector having values 1 from 30
    with increments of 3.
n = numel(x);          %finding no of elements in x. These will
    correspond with number of rows in z matrix
z = zeros(n,3);        %generating a 3 column matrix
z(:,1) = randperm(10); %filling 1st column of matrix z with random
    numbers ranging from 1 to 10.
z(:,2) = z(:,1).^2;     % 2nd column elements are square of 1st column
    elements
z(:,3) = sqrt(z(:,1)); % 3rd column elements are square root of 1st
    column elements.

figure
plot(x, z(:,2))        %plotting x vs second column of z.
xlabel('x','fontsize',15,'fontname','times new roman')
ylabel('2nd column of z','fontsize',15,'fontname','times new roman')
title('Plot of x vs second column z','fontsize',16,'fontname','times
    new roman')
```



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