
```
%{
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Subject: Assignment Q3a
}%

clear all %clear stored variables
clc %clear the screen
close all %close all previously created plots

syms T %Defining a variable T

%Setting the initial concentration of A, B and C respectively
Cao=3;
Cbo=0;
Cco=0;

outputVector = [Cao Cbo Cco]; %Defining output vector

T=1:0.5:20; %Setting the range to vary T
L=length(T); %Length of array T

for a = 1:L

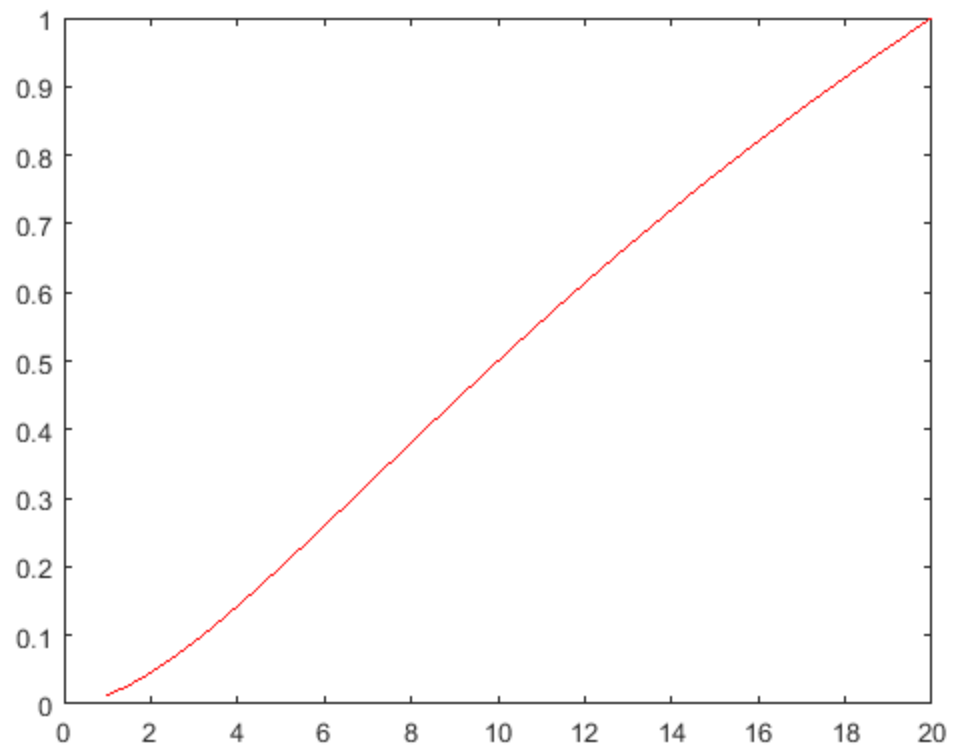
    Mat = [1+T(a)/20 0 0; -T(a)/20 1+T(a)/10 0; 0 -T(a)/10 1]; %
    Defining the matrix of equations

    finalVector = inv(Mat)*outputVector'; %Solving the system to find
    the final concentrations

    Cc(a) = finalVector (3,1); % Storing the final concentration of C

end

plot(T,Cc,'-r') %Plotting T vs C
```



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