

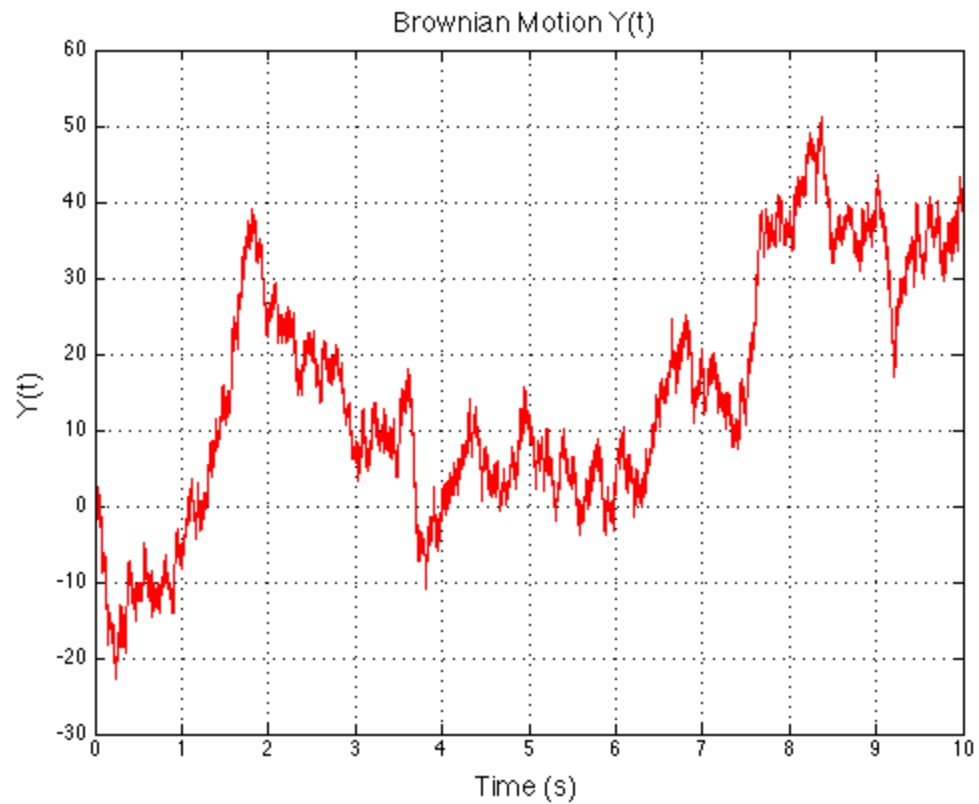
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```
% Deep Patel
% Math 481
% Brownian Motion Computer Assignment

clear all, close all, clc

N = 10000; % Number of data points in Brownian motion
X = -1 + (2)*rand(N,1); % Gives a random number between -1 and 1
Y = cumsum(X); % Gets the cumulative sum of the random number X
t = linspace(0,10,N); % Sets an arbitrary time vector between time 0 and 10

% Plot
figure;
plot(t,Y,'r'); grid on;
xlabel('Time (s)', 'FontSize',14); ylabel('Y(t)', 'FontSize',14);
title('Brownian Motion Y(t)', 'FontSize',14);
```



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