ASTR363 Problem 4 matlab

```
clc
close all
clear all

% Reading the data files as matrices
file = readmatrix("problem4.xlsx");
file(isnan(file)) = 0;
```

```
x = file(1:5,1); % Getting the x-values 87Rb/86Sr
y1 = file(1:5,3); % Getting the y-values 87Sr/86Sr for t=0 Ga
y2 = file(8:12,3); % Getting the y-values 87Sr/86Sr for t=1 Ga
y3 = file(15:19,3); % Getting the y-values 87Sr/86Sr for t=3 Ga
% Plotting
figure('Renderer', 'painters', 'Position', [10 10 900 600])
plot(x,y1,'-ob');
title('Martian Rb-Sr Dating - By: Tomoki Koike')
xlabel('87Rb/86Sr')
ylabel('87Sr/86Sr')
hold on
plot(x,y2,'-or')
plot(x,y3,'-og')
hold off
grid on
grid minor
box on
xlim([0 6])
legend('t = 0 Ga', 't = 1 Ga', 't = 3 Ga', 'Location', 'northwest')
```

