

```
close all; clear all; clc;
r = [.5 1 1.5 2 2.5];
i = [1.166 1.475 2.0967 3.17 4.98 ];
l = log(i); R = log(r);
A = [length(r) sum(R) sum(R.^2) sum(R.^3) sum(R.^4);sum(R) sum(R.^2) sum(R.^3) sum(R.^4) sum(R.^5);sum(R.^2) sum(R.^3) sum(R.^4) sum(R.^5) sum(R.^6);sum(R.^3) sum(R.^4) sum(R.^5) sum(R.^6) sum(R.^7);sum(R.^4) sum(R.^5) sum(R.^6) sum(R.^7) sum(R.^8)];
Y = [sum(l);sum(l.*R);sum(l.*(R.^2)); sum(l.*(R.^3));sum(l.*(R.^4))];
x = A\Y;
yi = x(1)+x(2).*R +x(3).*(R.^2)+x(4).*(R.^3)+x(5).*(R.^4);
plot(r,i,'o');
hold on;
plot(r,exp(yi),'r');
```