```
close all; clear all; clc;
Vr = [1 2 3 4 5 6 7 8 9 10];
Pr = [.1 .38 .92 1.58 2.53 3.71 4.83 6.36 8.09 10.1];
n = length(Vr);
format long;
A = [n sum(log(Vr));sum(log(Vr)) sum((log(Vr)).^2)];
X = [];
Y = [sum(log(Pr)) sum(log(Pr).*log(Vr))];
X = Y/A;
a0 = X(1,1); a1 = X(1,2);
R = exp(-a0)
n = a1
yid = (Vr).^n./R;
plot(Vr,Pr,'o');
hold on;
plot(Vr,yid)
```