```matlab
%Plot the approximation function
%初始化xi範圍，yi數值
xi = -10:2:10;
yi = -.03*xi.^2 +.1*xi + 2 + .5*(rand(1,length(xi))-.5);
plot(xi,yi,'o');   %畫出原圖
hold on;           %hold
xx = -10:.1:10;    %初始化xx範圍
for ri = 1:3       %計算不同次方的近似圖，ri等於最高次方
    m = [ones(1,size(xi,2));cumprod(repmat(xi,ri,1),1)]';
    a= m\yi        %m*a = yi，m\yi等於係數a
    mm= [ones(1,size(xx,2));cumprod(repmat(xx,ri,1),1)]';
    yy=mm*a;       %mm*a得出近似yy
    plot(xx,yy);   %畫出近似圖
end
hold off;
```