

```
clc;clear all; close all;  
A0=[1,2];  
[x,fmin,e,r]=fminsearch(@g,[1,2],optimset('display','iter','Tolx',1e-8))  
[x,fmin,e,r]=fminsearch(@g,[1,2],optimset('plot',@optimplotfval))
```

```
function y = g(x)
y=x(1)^2+x(2)^2+3*x(1)*x(2)-6;
```