Iteration	Func-count	f(x)	Step-size	First-order optimality
0	3	50		114
1	6	0.577008	0.00877193	5.7
2	9	0.288298	1	3.89
3	12	0.0952794	1	2.26
4	15	0.0371881	1	1.94
5	18	0.00146998	1	0.449
6	21	2.39878e-05	1	0.0473
7	24	3.28403e-09	1	0.00042
8	27	1.73247e-12	1	8.84e-06

Local minimum found.

Optimization completed because the size of the gradient is less than

the default value of the function tolerance.

Computing finite-difference Hessian using user-supplied objective function.

First-order

Iteration	Func-count	f(x)	Step-size	optimality
0	3	10		50
1	9	0.28433	0.00818844	4.35
2	12	0.152447	1	3.13
3	15	0.00126453	1	0.267
4	18	7.57579e-06	1	0.0191
5	21	8.26384e-09	1	0.00131
6	24	1.38308e-10	1	0.000166
7	27	7.99869e-14	1	1.19e-06

Local minimum found.

Optimization completed because the size of the gradient is less than

the default value of the function tolerance.

Computing finite-difference Hessian using user-supplied objective function.

Iteration	Func-count	f(x)	Step-size	First-order optimality
0	3	8		36

1	9	0.2697	0.00756181	4.67
2	12	0.066855	1	2.24
3	15	7.70243e-05	1	0.0996
4	18	1.89206e-08	1	0.00136
5	21	1.37999e-13	1	1.28e-06

Local minimum found.

Optimization completed because the size of the gradient is less than

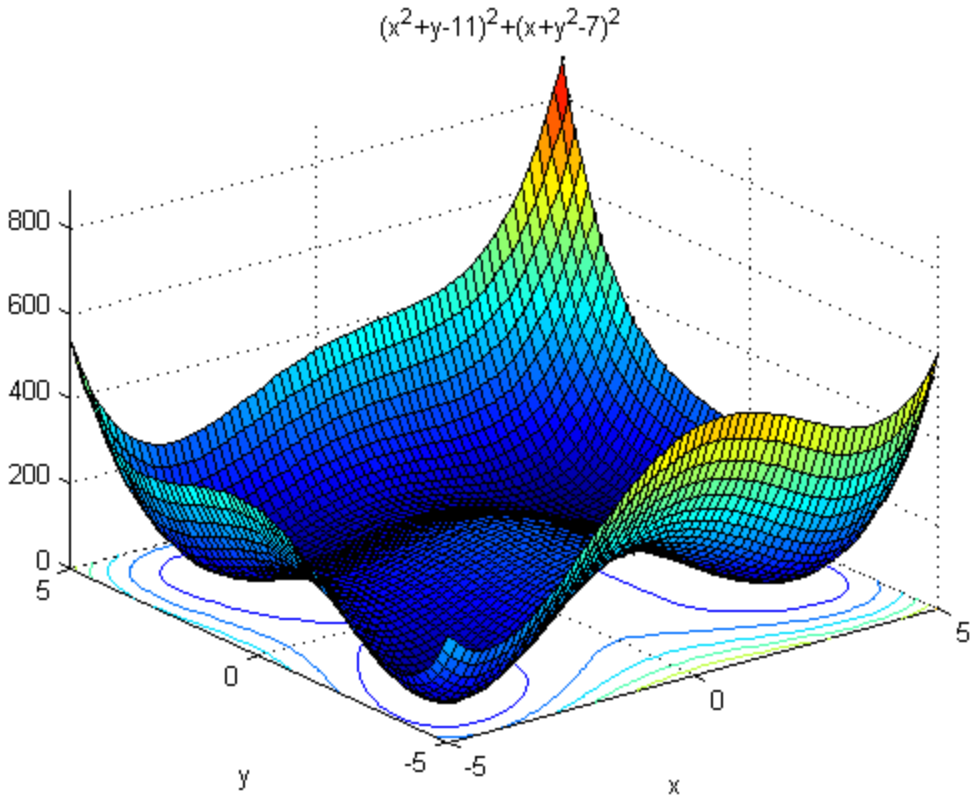
the default value of the function tolerance.

Computing finite-difference Hessian using user-supplied objective function.

Iteration	Func-count	f(x)	Step-size	First-order optimality
0	3	2		14
1	9	0.00177728	0.0137721	0.514
2	12	9.21033e-06	1	0.0341
3	15	2.55503e-08	1	0.00176
4	18	3.25833e-11	1	6e-05

```
     5          21      1.27633e-14              1       1.09e-06

Local minimum found.

Optimization completed because the size of the gradient is less than

the default value of the function tolerance.

Computing finite-difference Hessian using user-supplied objective function.

x1 =

    3.0000    2.0000

x2 =

    3.5844   -1.8481
```

```
x3 =

   -3.7793   -3.2832


x4 =

   -2.8051    3.1313


ans =

   1.0e-11 *

    0.1732    0.0080    0.0138    0.0013


ans =

   25.7287   28.7008   70.7472   64.8635
   82.3093  105.4564  133.8262   80.5788
```



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