

Problem type appears to be: con

Time for symbolic processing: 2.0192 seconds

Starting numeric solver

===== \* \* \* ===== \* \* \*

TOMLAB - Tomlab user Demo license 999100. Valid to 2016-05-09

=====

Problem: --- 1: Optimal Robot Path Planning	f_k	3.435021211904146100
	sum( constr )	0.000000001480174281
	f(x_k) + sum( constr )	3.435021213384320300
	f(x_0)	15.000000000000000000

Solver: snopt. EXIT=0. INFORM=1.

SNOPT 7.2-12 NLP code

Optimality conditions satisfied

FuncEv 19 GradEv 17 ConstrEv 17 ConJacEv 17 Iter 16 MinorIter 71

CPU time: 1.390625 sec. Elapsed time: 1.336000 sec.

Problem type appears to be: con

Time for symbolic processing: 1.2546 seconds

Starting numeric solver

===== \* \* \* ===== \* \* \*

TOMLAB - Tomlab user Demo license 999100. Valid to 2016-05-09

=====

Problem: --- 1: Optimal Robot Path Planning	f_k	3.435021211904145200
	sum( constr )	0.000000001480133181
	f(x_k) + sum( constr )	3.435021213384278600
	f(x_0)	15.000000000000000000

Solver: snopt. EXIT=0. INFORM=1.

SNOPT 7.2-12 NLP code

Optimality conditions satisfied

FuncEv 19 GradEv 17 ConstrEv 17 ConJacEv 17 Iter 16 MinorIter 71

CPU time: 1.218750 sec. Elapsed time: 1.237000 sec.

Problem type appears to be: con

Time for symbolic processing: 0.93637 seconds

Starting numeric solver

===== \* \* \* ===== \* \* \*

TOMLAB - Tomlab user Demo license 999100. Valid to 2016-05-09

=====

Problem: --- 1: Optimal Robot Path Planning	f_k	3.435021211904145700
	sum( constr )	0.000000001480175764
	f(x_k) + sum( constr )	3.435021213384321600
	f(x_0)	15.000000000000000000

Solver: snopt. EXIT=0. INFORM=1.

SNOPT 7.2-12 NLP code

Optimality conditions satisfied

FuncEv 19 GradEv 17 ConstrEv 17 ConJacEv 17 Iter 16 MinorIter 71

CPU time: 1.234375 sec. Elapsed time: 1.239000 sec.

Problem type appears to be: con

Time for symbolic processing: 0.93017 seconds

Starting numeric solver

===== \* \* \* ===== \* \* \*

TOMLAB - Tomlab user Demo license 999100. Valid to 2016-05-09

=====

Problem: --- 1: Optimal Robot Path Planning	f_k	3.435021211904146100
	sum( constr )	0.000000001480157332
	f(x_k) + sum( constr )	3.435021213384303400
	f(x_0)	15.000000000000000000

Solver: snopt. EXIT=0. INFORM=1.

SNOPT 7.2-12 NLP code

Optimality conditions satisfied

FuncEv 19 GradEv 17 ConstrEv 17 ConJacEv 17 Iter 16 MinorIter 71

CPU time: 1.250000 sec. Elapsed time: 1.270000 sec.

Problem type appears to be: con

Time for symbolic processing: 0.98852 seconds

Starting numeric solver

===== \* \* \* ===== \* \* \*

TOMLAB - Tomlab user Demo license 999100. Valid to 2016-05-09

=====

Problem: --- 1: Optimal Robot Path Planning	f_k	3.435021211904146600
	sum( constr )	0.000000001480158528
	f(x_k) + sum( constr )	3.435021213384305200
	f(x_0)	15.000000000000000000

Solver: snopt. EXIT=0. INFORM=1.

SNOPT 7.2-12 NLP code

Optimality conditions satisfied

FuncEv 19 GradEv 17 ConstrEv 17 ConJacEv 17 Iter 16 MinorIter 71

CPU time: 1.265625 sec. Elapsed time: 1.321000 sec.

Problem type appears to be: con

Time for symbolic processing: 0.97677 seconds

Starting numeric solver

===== \* \* \* ===== \* \* \*

TOMLAB - Tomlab user Demo license 999100. Valid to 2016-05-09

=====

Problem: --- 1: Optimal Robot Path Planning	f_k	3.435021211904145700
	sum( constr )	0.000000001480180375
	f(x_k) + sum( constr )	3.435021213384326100
	f(x_0)	15.000000000000000000

Solver: snopt. EXIT=0. INFORM=1.

SNOPT 7.2-12 NLP code

Optimality conditions satisfied

FuncEv 19 GradEv 17 ConstrEv 17 ConJacEv 17 Iter 16 MinorIter 71

CPU time: 1.234375 sec. Elapsed time: 1.263000 sec.

Problem type appears to be: con

Time for symbolic processing: 0.91152 seconds

Starting numeric solver

===== \* \* \* ===== \* \* \*

TOMLAB - Tomlab user Demo license 999100. Valid to 2016-05-09

=====

Problem: --- 1: Optimal Robot Path Planning	f_k	3.435021211904146100
	sum( constr )	0.000000001480163146
	f(x_k) + sum( constr )	3.435021213384309200
	f(x_0)	15.000000000000000000

Solver: snopt. EXIT=0. INFORM=1.

SNOPT 7.2-12 NLP code

Optimality conditions satisfied

FuncEv 19 GradEv 17 ConstrEv 17 ConJacEv 17 Iter 16 MinorIter 71

CPU time: 1.218750 sec. Elapsed time: 1.231000 sec.

Problem type appears to be: con

Time for symbolic processing: 0.919 seconds

Starting numeric solver

===== \* \* \* ===== \* \* \*

TOMLAB - Tomlab user Demo license 999100. Valid to 2016-05-09

=====

Problem: --- 1: Optimal Robot Path Planning	f_k	3.435021211904145700
	sum( constr )	0.000000001480166403
	f(x_k) + sum( constr )	3.435021213384311900
	f(x_0)	15.000000000000000000

Solver: snopt. EXIT=0. INFORM=1.

SNOPT 7.2-12 NLP code

Optimality conditions satisfied

FuncEv 19 GradEv 17 ConstrEv 17 ConJacEv 17 Iter 16 MinorIter 71

CPU time: 1.281250 sec. Elapsed time: 1.299000 sec.

Problem type appears to be: con

Time for symbolic processing: 0.91242 seconds

Starting numeric solver

===== \* \* \* ===== \* \* \*

TOMLAB - Tomlab user Demo license 999100. Valid to 2016-05-09

=====

Problem: --- 1: Optimal Robot Path Planning	f_k	3.435021211904145700
	sum( constr )	0.000000001480166815
	f(x_k) + sum( constr )	3.435021213384312300
	f(x_0)	15.000000000000000000

Solver: snopt. EXIT=0. INFORM=1.  
SNOPT 7.2-12 NLP code  
Optimality conditions satisfied

FuncEv 19 GradEv 17 ConstrEv 17 ConJacEv 17 Iter 16 MinorIter 71  
CPU time: 1.296875 sec. Elapsed time: 1.288000 sec.  
Problem type appears to be: con  
Time for symbolic processing: 0.90399 seconds  
Starting numeric solver

===== \* \* \* ===== \* \* \*

TOMLAB - Tomlab user Demo license 999100. Valid to 2016-05-09

=====

Problem: --- 1: Optimal Robot Path Planning	f_k	3.435021211904145700
	sum( constr )	0.000000001480198831
	f(x_k) + sum( constr )	3.435021213384344300
	f(x_0)	15.000000000000000000

Solver: snopt. EXIT=0. INFORM=1.  
SNOPT 7.2-12 NLP code  
Optimality conditions satisfied

FuncEv 19 GradEv 17 ConstrEv 17 ConJacEv 17 Iter 16 MinorIter 71  
CPU time: 1.250000 sec. Elapsed time: 1.245000 sec.  
Problem type appears to be: con  
Time for symbolic processing: 0.88238 seconds  
Starting numeric solver

===== \* \* \* ===== \* \* \*

TOMLAB - Tomlab user Demo license 999100. Valid to 2016-05-09

=====

Problem: --- 1: Optimal Robot Path Planning	f_k	3.435021211904146100
	sum( constr )	0.000000001480223233
	f(x_k) + sum( constr )	3.435021213384369200
	f(x_0)	15.000000000000000000

Solver: snopt. EXIT=0. INFORM=1.  
SNOPT 7.2-12 NLP code  
Optimality conditions satisfied

FuncEv 19 GradEv 17 ConstrEv 17 ConJacEv 17 Iter 16 MinorIter 81  
CPU time: 1.281250 sec. Elapsed time: 1.288000 sec.  
Problem type appears to be: con  
Time for symbolic processing: 0.90649 seconds  
Starting numeric solver

===== \* \* \* ===== \* \* \*

TOMLAB - Tomlab user Demo license 999100. Valid to 2016-05-09

=====

Problem: --- 1: Optimal Robot Path Planning	f_k	3.441960245980490100
	sum( constr )	0.000000000399565029
	f(x_k) + sum( constr )	3.441960246380054900

f(x\_0) 15.000000000000000000

Solver: snopt. EXIT=0. INFORM=1.  
SNOPT 7.2-12 NLP code  
Optimality conditions satisfied

FuncEv 18 GradEv 16 ConstrEv 16 ConJacEv 16 Iter 15 MinorIter 169  
CPU time: 1.312500 sec. Elapsed time: 1.365000 sec.  
Problem type appears to be: con  
Time for symbolic processing: 0.88422 seconds  
Starting numeric solver

```
===== * * * ===== * * *
TOMLAB - Tomlab user Demo license 999100. Valid to 2016-05-09
=====
Problem: --- 1: Optimal Robot Path Planning f_k 3.438310325729640100
              sum(|constr|) 0.0000000000813150958
              f(x_k) + sum(|constr|) 3.438310326542791000
              f(x_0) 15.000000000000000000
```

Solver: snopt. EXIT=0. INFORM=1.  
SNOPT 7.2-12 NLP code  
Optimality conditions satisfied

FuncEv 18 GradEv 16 ConstrEv 16 ConJacEv 16 Iter 15 MinorIter 193  
CPU time: 1.468750 sec. Elapsed time: 1.475000 sec.  
Problem type appears to be: con  
Time for symbolic processing: 0.90441 seconds  
Starting numeric solver

```
===== * * * ===== * * *
TOMLAB - Tomlab user Demo license 999100. Valid to 2016-05-09
=====
Problem: --- 1: Optimal Robot Path Planning f_k 3.523897978047856800
              sum(|constr|) 0.000000000008518152
              f(x_k) + sum(|constr|) 3.523897978056374800
              f(x_0) 15.000000000000000000
```

Solver: snopt. EXIT=0. INFORM=1.  
SNOPT 7.2-12 NLP code  
Optimality conditions satisfied

FuncEv 108 GradEv 106 ConstrEv 106 ConJacEv 106 Iter 96 MinorIter 2975  
CPU time: 9.484375 sec. Elapsed time: 9.453000 sec.  
Problem type appears to be: con  
Time for symbolic processing: 0.86545 seconds  
Starting numeric solver

```
===== * * * ===== * * *
TOMLAB - Tomlab user Demo license 999100. Valid to 2016-05-09
=====
Problem: --- 1: Optimal Robot Path Planning f_k 3.435021211889063500
```

sum( constr )	0.000000001370873578
f(x_k) + sum( constr )	3.435021213259937100
f(x_0)	15.000000000000000000

Solver: snopt. EXIT=0. INFORM=1.  
SNOPT 7.2-12 NLP code  
Optimality conditions satisfied

FuncEv 19 GradEv 17 ConstrEv 17 ConJacEv 17 Iter 16 MinorIter 405  
CPU time: 1.546875 sec. Elapsed time: 1.550000 sec.  
Problem type appears to be: con  
Time for symbolic processing: 0.89939 seconds  
Starting numeric solver

===== \* \* \* ===== \* \* \*  
TOMLAB - Tomlab user Demo license 999100. Valid to 2016-05-09  
=====

Problem: --- 1: Optimal Robot Path Planning	f_k	3.435021211904144800
	sum( constr )	0.000000001480213720
	f(x_k) + sum( constr )	3.435021213384358500
	f(x_0)	15.000000000000000000

Solver: snopt. EXIT=0. INFORM=1.  
SNOPT 7.2-12 NLP code  
Optimality conditions satisfied

FuncEv 19 GradEv 17 ConstrEv 17 ConJacEv 17 Iter 16 MinorIter 196  
CPU time: 1.281250 sec. Elapsed time: 1.299000 sec.  
Problem type appears to be: con  
Time for symbolic processing: 0.87129 seconds  
Starting numeric solver

===== \* \* \* ===== \* \* \*  
TOMLAB - Tomlab user Demo license 999100. Valid to 2016-05-09  
=====

Problem: --- 1: Optimal Robot Path Planning	f_k	3.435021211904145700
	sum( constr )	0.000000001480163659
	f(x_k) + sum( constr )	3.435021213384309200
	f(x_0)	15.000000000000000000

Solver: snopt. EXIT=0. INFORM=1.  
SNOPT 7.2-12 NLP code  
Optimality conditions satisfied

FuncEv 19 GradEv 17 ConstrEv 17 ConJacEv 17 Iter 16 MinorIter 168  
CPU time: 1.265625 sec. Elapsed time: 1.332000 sec.  
Problem type appears to be: con  
Time for symbolic processing: 0.86684 seconds  
Starting numeric solver

===== \* \* \* ===== \* \* \*  
TOMLAB - Tomlab user Demo license 999100. Valid to 2016-05-09

```
=====
Problem: --- 1: Optimal Robot Path Planning    f_k          3.474927253744156000
              sum(|constr|)          0.000000000048541761
              f(x_k) + sum(|constr|)      3.474927253792697600
              f(x_0)          15.000000000000000000
```

Solver: snopt. EXIT=0. INFORM=1.  
SNOPT 7.2-12 NLP code  
Optimality conditions satisfied

FuncEv 100 GradEv 98 ConstrEv 98 ConJacEv 98 Iter 95 MinorIter 1819  
CPU time: 8.109375 sec. Elapsed time: 8.132000 sec.  
Problem type appears to be: con  
Time for symbolic processing: 0.8873 seconds  
Starting numeric solver

```
===== * * * ===== * * *
TOMLAB - Tomlab user Demo license 999100. Valid to 2016-05-09
=====
```

```
Problem: --- 1: Optimal Robot Path Planning    f_k          3.435021211901760500
              sum(|constr|)          0.0000000001132247777
              f(x_k) + sum(|constr|)      3.435021213034008100
              f(x_0)          15.000000000000000000
```

Solver: snopt. EXIT=0. INFORM=1.  
SNOPT 7.2-12 NLP code  
Optimality conditions satisfied

FuncEv 19 GradEv 17 ConstrEv 17 ConJacEv 17 Iter 16 MinorIter 107  
CPU time: 1.265625 sec. Elapsed time: 1.303000 sec.  
Problem type appears to be: con  
Time for symbolic processing: 0.86325 seconds  
Starting numeric solver

```
===== * * * ===== * * *
TOMLAB - Tomlab user Demo license 999100. Valid to 2016-05-09
=====
```

```
Problem: --- 1: Optimal Robot Path Planning    f_k          3.435021211904145700
              sum(|constr|)          0.0000000001480158776
              f(x_k) + sum(|constr|)      3.435021213384304300
              f(x_0)          15.000000000000000000
```

Solver: snopt. EXIT=0. INFORM=1.  
SNOPT 7.2-12 NLP code  
Optimality conditions satisfied

FuncEv 19 GradEv 17 ConstrEv 17 ConJacEv 17 Iter 16 MinorIter 71  
CPU time: 1.187500 sec. Elapsed time: 1.193000 sec.  
Problem type appears to be: con  
Time for symbolic processing: 0.87689 seconds  
Starting numeric solver

```
===== * * * ===== * * *
TOMLAB - Tomlab user Demo license 999100. Valid to 2016-05-09
=====
```

```
Problem: --- 1: Optimal Robot Path Planning    f_k          3.435021211904145700
                                         sum(|constr|)      0.000000001480145285
                                         f(x_k) + sum(|constr|) 3.435021213384291000
                                         f(x_0)          15.000000000000000000
```

```
Solver: snopt. EXIT=0. INFORM=1.
SNOPT 7.2-12 NLP code
Optimality conditions satisfied
```

```
FuncEv 19 GradEv 17 ConstrEv 17 ConJacEv 17 Iter 16 MinorIter 71
CPU time: 1.203125 sec. Elapsed time: 1.210000 sec.
Problem type appears to be: con
Time for symbolic processing: 0.8467 seconds
Starting numeric solver
```

```
===== * * * ===== * * *
TOMLAB - Tomlab user Demo license 999100. Valid to 2016-05-09
=====
```

```
Problem: --- 1: Optimal Robot Path Planning    f_k          3.435021211904146100
                                         sum(|constr|)      0.000000001480115209
                                         f(x_k) + sum(|constr|) 3.435021213384261300
                                         f(x_0)          15.000000000000000000
```

```
Solver: snopt. EXIT=0. INFORM=1.
SNOPT 7.2-12 NLP code
Optimality conditions satisfied
```

```
FuncEv 19 GradEv 17 ConstrEv 17 ConJacEv 17 Iter 16 MinorIter 71
CPU time: 1.171875 sec. Elapsed time: 1.231000 sec.
Problem type appears to be: con
Time for symbolic processing: 0.85685 seconds
Starting numeric solver
```

```
===== * * * ===== * * *
TOMLAB - Tomlab user Demo license 999100. Valid to 2016-05-09
=====
```

```
Problem: --- 1: Optimal Robot Path Planning    f_k          3.435021211904144800
                                         sum(|constr|)      0.000000001480214334
                                         f(x_k) + sum(|constr|) 3.435021213384359000
                                         f(x_0)          15.000000000000000000
```

```
Solver: snopt. EXIT=0. INFORM=1.
SNOPT 7.2-12 NLP code
Optimality conditions satisfied
```

```
FuncEv 19 GradEv 17 ConstrEv 17 ConJacEv 17 Iter 16 MinorIter 71
CPU time: 1.203125 sec. Elapsed time: 1.195000 sec.
Problem type appears to be: con
```



Time for symbolic processing: 0.86051 seconds

Starting numeric solver

===== \* \* \* ===== \* \* \*

TOMLAB - Tomlab user Demo license 999100. Valid to 2016-05-09

=====

Problem: --- 1: Optimal Robot Path Planning	f_k	3.438090023570847400
	sum( constr )	0.000000000147625854
	f(x_k) + sum( constr )	3.438090023718473300
	f(x_0)	15.000000000000000000

Solver: snopt. EXIT=0. INFORM=1.

SNOPT 7.2-12 NLP code

Optimality conditions satisfied

FuncEv 20 GradEv 18 ConstrEv 18 ConJacEv 18 Iter 17 MinorIter 236

CPU time: 1.468750 sec. Elapsed time: 1.484000 sec.

Problem type appears to be: con

Time for symbolic processing: 0.87776 seconds

Starting numeric solver

===== \* \* \* ===== \* \* \*

TOMLAB - Tomlab user Demo license 999100. Valid to 2016-05-09

=====

Problem: --- 1: Optimal Robot Path Planning	f_k	3.465256016827297900
	sum( constr )	0.000000000005675366
	f(x_k) + sum( constr )	3.465256016832973400
	f(x_0)	15.000000000000000000

Solver: snopt. EXIT=0. INFORM=1.

SNOPT 7.2-12 NLP code

Optimality conditions satisfied

FuncEv 93 GradEv 91 ConstrEv 91 ConJacEv 91 Iter 80 MinorIter 3929

CPU time: 9.500000 sec. Elapsed time: 9.498000 sec.

Problem type appears to be: con

Time for symbolic processing: 0.86254 seconds

Starting numeric solver

===== \* \* \* ===== \* \* \*

TOMLAB - Tomlab user Demo license 999100. Valid to 2016-05-09

=====

Problem: --- 1: Optimal Robot Path Planning	f_k	3.435021211886152100
	sum( constr )	0.000000000060932307
	f(x_k) + sum( constr )	3.435021211947084200
	f(x_0)	15.000000000000000000

Solver: snopt. EXIT=0. INFORM=1.

SNOPT 7.2-12 NLP code

Optimality conditions satisfied

FuncEv 20 GradEv 18 ConstrEv 18 ConJacEv 18 Iter 17 MinorIter 223

CPU time: 1.484375 sec. Elapsed time: 1.520000 sec.

Problem type appears to be: con

Time for symbolic processing: 0.8971 seconds

Starting numeric solver

===== \* \* \* ===== \* \* \*

TOMLAB - Tomlab user Demo license 999100. Valid to 2016-05-09

```

=====
Problem: --- 1: Optimal Robot Path Planning    f_k      3.470042440705211300
              sum(|constr|)                    0.000000000001415972
              f(x_k) + sum(|constr|)            3.470042440706627000
              f(x_0)                          15.000000000000000000
  
```

Solver: snopt. EXIT=0. INFORM=1.

SNOPT 7.2-12 NLP code

Optimality conditions satisfied

FuncEv 122 GradEv 120 ConstrEv 120 ConJacEv 120 Iter 113 MinorIter 2267

CPU time: 11.140625 sec. Elapsed time: 11.572000 sec.

Problem type appears to be: con

Time for symbolic processing: 1.093 seconds

Starting numeric solver

===== \* \* \* ===== \* \* \*

TOMLAB - Tomlab user Demo license 999100. Valid to 2016-05-09

```

=====
Problem: --- 1: Optimal Robot Path Planning    f_k      3.435021211901496200
              sum(|constr|)                    0.0000000001484144337
              f(x_k) + sum(|constr|)            3.435021213385640600
              f(x_0)                          15.000000000000000000
  
```

Solver: snopt. EXIT=0. INFORM=1.

SNOPT 7.2-12 NLP code

Optimality conditions satisfied

FuncEv 19 GradEv 17 ConstrEv 17 ConJacEv 17 Iter 16 MinorIter 85

CPU time: 1.500000 sec. Elapsed time: 1.594000 sec.

Problem type appears to be: con

Time for symbolic processing: 1.3517 seconds

Starting numeric solver

===== \* \* \* ===== \* \* \*

TOMLAB - Tomlab user Demo license 999100. Valid to 2016-05-09

```

=====
Problem: --- 1: Optimal Robot Path Planning    f_k      3.442576550679897100
              sum(|constr|)                    0.000000000385988335
              f(x_k) + sum(|constr|)            3.442576551065885200
              f(x_0)                          15.000000000000000000
  
```

Solver: snopt. EXIT=0. INFORM=1.

SNOPT 7.2-12 NLP code

Optimality conditions satisfied

FuncEv 22 GradEv 20 ConstrEv 20 ConJacEv 20 Iter 19 MinorIter 620

CPU time: 1.687500 sec. Elapsed time: 1.692000 sec.

Problem type appears to be: con

Time for symbolic processing: 1.0785 seconds

Starting numeric solver

===== \* \* \* ===== \* \* \*

TOMLAB - Tomlab user Demo license 999100. Valid to 2016-05-09

=====

Problem: --- 1: Optimal Robot Path Planning	f_k	3.627222790281205500
	sum( constr )	0.000000389948151221
	f(x_k) + sum( constr )	3.627223180229356600
	f(x_0)	15.000000000000000000

Solver: snopt. EXIT=0. INFORM=1.

SNOPT 7.2-12 NLP code

Optimality conditions satisfied

FuncEv 14 GradEv 12 ConstrEv 12 ConJacEv 12 Iter 11 MinorIter 129

CPU time: 1.312500 sec. Elapsed time: 1.296000 sec.

Problem type appears to be: con

Time for symbolic processing: 1.1888 seconds

Starting numeric solver

===== \* \* \* ===== \* \* \*

TOMLAB - Tomlab user Demo license 999100. Valid to 2016-05-09

=====

Problem: --- 1: Optimal Robot Path Planning	f_k	3.451125833717734200
	sum( constr )	0.000000000012669411
	f(x_k) + sum( constr )	3.451125833730403600
	f(x_0)	15.000000000000000000

Solver: snopt. EXIT=0. INFORM=1.

SNOPT 7.2-12 NLP code

Optimality conditions satisfied

FuncEv 143 GradEv 141 ConstrEv 141 ConJacEv 141 Iter 124 MinorIter 3007

CPU time: 12.703125 sec. Elapsed time: 13.552000 sec.

Problem type appears to be: con

Time for symbolic processing: 1.1277 seconds

Starting numeric solver

===== \* \* \* ===== \* \* \*

TOMLAB - Tomlab user Demo license 999100. Valid to 2016-05-09

=====

Problem: --- 1: Optimal Robot Path Planning	f_k	3.476645426315291500
	sum( constr )	0.000000000083503182
	f(x_k) + sum( constr )	3.476645426398794500
	f(x_0)	15.000000000000000000

Solver: snopt. EXIT=0. INFORM=1.

SNOPT 7.2-12 NLP code  
Optimality conditions satisfied

FuncEv 21 GradEv 19 ConstrEv 19 ConJacEv 19 Iter 18 MinorIter 191  
CPU time: 1.500000 sec. Elapsed time: 1.606000 sec.  
Problem type appears to be: con  
Time for symbolic processing: 1.1511 seconds  
Starting numeric solver

===== \* \* \* ===== \* \* \*

TOMLAB - Tomlab user Demo license 999100. Valid to 2016-05-09

=====

Problem: --- 1: Optimal Robot Path Planning	f_k	3.514781670788634600
	sum( constr )	0.000000002481628063
	f(x_k) + sum( constr )	3.514781673270262800
	f(x_0)	15.000000000000000000

Solver: snopt. EXIT=0. INFORM=1.  
SNOPT 7.2-12 NLP code  
Optimality conditions satisfied

FuncEv 654 GradEv 652 ConstrEv 652 ConJacEv 652 Iter 168 MinorIter 4958  
CPU time: 29.281250 sec. Elapsed time: 32.382000 sec.  
Problem type appears to be: con  
Time for symbolic processing: 1.3307 seconds  
Starting numeric solver

===== \* \* \* ===== \* \* \*

TOMLAB - Tomlab user Demo license 999100. Valid to 2016-05-09

=====

Problem: --- 1: Optimal Robot Path Planning	f_k	3.435021211902532300
	sum( constr )	0.000000001475841099
	f(x_k) + sum( constr )	3.435021213378373500
	f(x_0)	15.000000000000000000

Solver: snopt. EXIT=0. INFORM=1.  
SNOPT 7.2-12 NLP code  
Optimality conditions satisfied

FuncEv 19 GradEv 17 ConstrEv 17 ConJacEv 17 Iter 16 MinorIter 583  
CPU time: 2.406250 sec. Elapsed time: 2.702000 sec.  
Problem type appears to be: con  
Time for symbolic processing: 1.1353 seconds  
Starting numeric solver

===== \* \* \* ===== \* \* \*

TOMLAB - Tomlab user Demo license 999100. Valid to 2016-05-09

=====

Problem: --- 1: Optimal Robot Path Planning	f_k	3.435021211904145200
	sum( constr )	0.000000001480183261
	f(x_k) + sum( constr )	3.435021213384328300
	f(x_0)	15.000000000000000000

Solver: snopt. EXIT=0. INFORM=1.  
 SNOPT 7.2-12 NLP code  
 Optimality conditions satisfied

FuncEv 19 GradEv 17 ConstrEv 17 ConJacEv 17 Iter 16 MinorIter 109  
 CPU time: 1.437500 sec. Elapsed time: 1.535000 sec.  
 Problem type appears to be: con  
 Time for symbolic processing: 1.2276 seconds  
 Starting numeric solver

```
===== * * * ===== * * *
TOMLAB - Tomlab user Demo license 999100. Valid to 2016-05-09
=====
Problem: --- 1: Optimal Robot Path Planning    f_k          3.435021211904145200
                                         sum(|constr|)      0.000000001480065309
                                         f(x_k) + sum(|constr|) 3.435021213384210600
                                         f(x_0)          15.000000000000000000
```

Solver: snopt. EXIT=0. INFORM=1.  
 SNOPT 7.2-12 NLP code  
 Optimality conditions satisfied

FuncEv 19 GradEv 17 ConstrEv 17 ConJacEv 17 Iter 16 MinorIter 71  
 CPU time: 1.453125 sec. Elapsed time: 1.522000 sec.  
 Problem type appears to be: con  
 Time for symbolic processing: 1.169 seconds  
 Starting numeric solver

```
===== * * * ===== * * *
TOMLAB - Tomlab user Demo license 999100. Valid to 2016-05-09
=====
Problem: --- 1: Optimal Robot Path Planning    f_k          3.435021211904144800
                                         sum(|constr|)      0.000000001480162392
                                         f(x_k) + sum(|constr|) 3.435021213384307000
                                         f(x_0)          15.000000000000000000
```

Solver: snopt. EXIT=0. INFORM=1.  
 SNOPT 7.2-12 NLP code  
 Optimality conditions satisfied

FuncEv 19 GradEv 17 ConstrEv 17 ConJacEv 17 Iter 16 MinorIter 71  
 CPU time: 1.531250 sec. Elapsed time: 1.545000 sec.  
 Problem type appears to be: con  
 Time for symbolic processing: 1.7831 seconds  
 Starting numeric solver

```
===== * * * ===== * * *
TOMLAB - Tomlab user Demo license 999100. Valid to 2016-05-09
=====
Problem: --- 1: Optimal Robot Path Planning    f_k          3.435021211904145200
                                         sum(|constr|)      0.000000001480234034
```

$f(x_k) + \text{sum}( \text{constr} )$	3.435021213384379400
$f(x_0)$	15.000000000000000000

Solver: snopt. EXIT=0. INFORM=1.  
 SNOPT 7.2-12 NLP code  
 Optimality conditions satisfied

FuncEv 19 GradEv 17 ConstrEv 17 ConJacEv 17 Iter 16 MinorIter 71  
 CPU time: 1.718750 sec. Elapsed time: 1.869000 sec.  
 Problem type appears to be: con  
 Time for symbolic processing: 1.2272 seconds  
 Starting numeric solver

===== \* \* \* ===== \* \* \*  
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 =====

Problem: --- 1: Optimal Robot Path Planning	$f_k$	3.435021211904145700
	$\text{sum}( \text{constr} )$	0.000000001480377570
	$f(x_k) + \text{sum}( \text{constr} )$	3.435021213384523300
	$f(x_0)$	15.000000000000000000

Solver: snopt. EXIT=0. INFORM=1.  
 SNOPT 7.2-12 NLP code  
 Optimality conditions satisfied

FuncEv 19 GradEv 17 ConstrEv 17 ConJacEv 17 Iter 16 MinorIter 71  
 CPU time: 1.734375 sec. Elapsed time: 2.007000 sec.  
 Problem type appears to be: con  
 Time for symbolic processing: 1.4453 seconds  
 Starting numeric solver

===== \* \* \* ===== \* \* \*  
 TOMLAB - Tomlab user Demo license 999100. Valid to 2016-05-09  
 =====

Problem: --- 1: Optimal Robot Path Planning	$f_k$	3.435021211904145700
	$\text{sum}( \text{constr} )$	0.000000001480297148
	$f(x_k) + \text{sum}( \text{constr} )$	3.435021213384442900
	$f(x_0)$	15.000000000000000000

Solver: snopt. EXIT=0. INFORM=1.  
 SNOPT 7.2-12 NLP code  
 Optimality conditions satisfied

FuncEv 19 GradEv 17 ConstrEv 17 ConJacEv 17 Iter 16 MinorIter 71  
 CPU time: 1.625000 sec. Elapsed time: 1.718000 sec.  
 Trial>>