

Problem type appears to be: con

Time for symbolic processing: 1.6126 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: 1.281250 sec. Elapsed time: 1.270000 sec.

Problem type appears to be: con

Time for symbolic processing: 0.88239 seconds

Starting numeric solver

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

=====

Problem: --- 1: Optimal Robot Path Planning	f_k	3.435021211904146600
	sum(constr)	0.000000001480160367
	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 97

CPU time: 1.187500 sec. Elapsed time: 1.202000 sec.

Problem type appears to be: con

Time for symbolic processing: 0.93533 seconds

Starting numeric solver

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

=====

Problem: --- 1: Optimal Robot Path Planning	f_k	3.435021211904146100
	sum(constr)	0.000000001480192219
	f(x_k) + sum(constr)	3.435021213384338500
	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 150

CPU time: 1.109375 sec. Elapsed time: 1.146000 sec.

Problem type appears to be: con

Time for symbolic processing: 0.81885 seconds

Starting numeric solver

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=====

Problem: --- 1: Optimal Robot Path Planning	f_k	3.435021211904145700
	sum(constr)	0.000000001480153471
	f(x_k) + sum(constr)	3.435021213384299000
	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 198

CPU time: 1.484375 sec. Elapsed time: 1.507000 sec.

Problem type appears to be: con

Time for symbolic processing: 0.8236 seconds

Starting numeric solver

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=====

Problem: --- 1: Optimal Robot Path Planning	f_k	3.440128895166487200
	sum(constr)	0.000000000321592598
	f(x_k) + sum(constr)	3.440128895488079800
	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 362

CPU time: 1.375000 sec. Elapsed time: 1.384000 sec.

Problem type appears to be: con

Time for symbolic processing: 0.76902 seconds

Starting numeric solver

===== * * * ===== * * *

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=====

Problem: --- 1: Optimal Robot Path Planning	f_k	3.446873578609587000
	sum(constr)	0.000000000770190161
	f(x_k) + sum(constr)	3.446873579379777100
	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 139

CPU time: 1.375000 sec. Elapsed time: 1.392000 sec.

Problem type appears to be: con

Time for symbolic processing: 0.78094 seconds

Starting numeric solver

===== * * * ===== * * *

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=====

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: 1.125000 sec. Elapsed time: 1.155000 sec.

Problem type appears to be: con

Time for symbolic processing: 0.81717 seconds

Starting numeric solver

===== * * * ===== * * *

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=====

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: 1.109375 sec. Elapsed time: 1.129000 sec.

Problem type appears to be: con

Time for symbolic processing: 0.79492 seconds

Starting numeric solver

===== * * * ===== * * *

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=====

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: 1.062500 sec. Elapsed time: 1.118000 sec.
Problem type appears to be: con
Time for symbolic processing: 0.76454 seconds
Starting numeric solver

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=====

Problem: --- 1: Optimal Robot Path Planning	f_k	3.435021211904145700
	sum(constr)	0.000000001480146019
	f(x_k) + sum(constr)	3.435021213384291900
	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 95
CPU time: 1.140625 sec. Elapsed time: 1.131000 sec.
Problem type appears to be: con
Time for symbolic processing: 0.78166 seconds
Starting numeric solver

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=====

Problem: --- 1: Optimal Robot Path Planning	f_k	3.435021211904145700
	sum(constr)	0.000000001480212408
	f(x_k) + sum(constr)	3.435021213384358100
	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 151
CPU time: 1.093750 sec. Elapsed time: 1.136000 sec.
Problem type appears to be: con
Time for symbolic processing: 0.77306 seconds
Starting numeric solver

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=====

Problem: --- 1: Optimal Robot Path Planning	f_k	3.435021211904145700
	sum(constr)	0.000000001480136590
	f(x_k) + sum(constr)	3.435021213384282100

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 145
 CPU time: 1.156250 sec. Elapsed time: 1.183000 sec.
 Problem type appears to be: con
 Time for symbolic processing: 0.76916 seconds
 Starting numeric solver

```
===== * * * ===== * * *
TOMLAB - Tomlab user Demo license 999100. Valid to 2016-05-09
=====
Problem: --- 1: Optimal Robot Path Planning    f_k      3.441140726506104900
              sum(|constr|)                    0.000000000360012072
              f(x_k) + sum(|constr|)            3.441140726866116900
              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 182
 CPU time: 1.218750 sec. Elapsed time: 1.269000 sec.
 Problem type appears to be: con
 Time for symbolic processing: 0.77724 seconds
 Starting numeric solver

```
===== * * * ===== * * *
TOMLAB - Tomlab user Demo license 999100. Valid to 2016-05-09
=====
Problem: --- 1: Optimal Robot Path Planning    f_k      3.448010712723357700
              sum(|constr|)                    0.000000000061264396
              f(x_k) + sum(|constr|)            3.448010712784622000
              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 98
 CPU time: 1.359375 sec. Elapsed time: 1.352000 sec.
 Problem type appears to be: con
 Time for symbolic processing: 0.8305 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)	0.000000001480148496
f(x_k) + sum(constr)	3.435021213384294100
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: 1.125000 sec. Elapsed time: 1.138000 sec.

Problem type appears to be: con

Time for symbolic processing: 0.86181 seconds

Starting numeric solver

===== * * * =====

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=====

Problem: --- 1: Optimal Robot Path Planning	f_k	3.435021211904145700
	sum(constr)	0.000000001480185535
	f(x_k) + sum(constr)	3.435021213384331400
	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: 1.140625 sec. Elapsed time: 1.156000 sec.

Problem type appears to be: con

Time for symbolic processing: 0.7823 seconds

Starting numeric solver

===== * * * =====

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=====

Problem: --- 1: Optimal Robot Path Planning	f_k	3.435021211904145700
	sum(constr)	0.000000001480143381
	f(x_k) + sum(constr)	3.435021213384289200
	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: 1.125000 sec. Elapsed time: 1.135000 sec.

Problem type appears to be: con

Time for symbolic processing: 0.78153 seconds

Starting numeric solver

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```
=====
Problem: --- 1: Optimal Robot Path Planning    f_k      3.435021211904145700
              sum(|constr|)                    0.000000001480131761
              f(x_k) + sum(|constr|)            3.435021213384277200
              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 129
CPU time: 1.093750 sec. Elapsed time: 1.121000 sec.
Problem type appears to be: con
Time for symbolic processing: 0.76918 seconds
Starting numeric solver

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

```
Problem: --- 1: Optimal Robot Path Planning    f_k      3.441795121096753900
              sum(|constr|)                    0.000000000124297322
              f(x_k) + sum(|constr|)            3.441795121221051400
              f(x_0)                          15.000000000000000000
```

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

FuncEv 61 GradEv 59 ConstrEv 59 ConJacEv 59 Iter 57 MinorIter 344
CPU time: 3.781250 sec. Elapsed time: 3.854000 sec.
Problem type appears to be: con
Time for symbolic processing: 0.78186 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|)                    0.000000001480227470
              f(x_k) + sum(|constr|)            3.435021213384373200
              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 163
CPU time: 1.125000 sec. Elapsed time: 1.159000 sec.
Problem type appears to be: con
Time for symbolic processing: 0.77566 seconds
Starting numeric solver

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

```
Problem: --- 1: Optimal Robot Path Planning    f_k      3.439162013758912700
              sum(|constr|)                    0.000000000303434005
              f(x_k) + sum(|constr|)            3.439162014062346900
              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 117
CPU time: 1.203125 sec. Elapsed time: 1.219000 sec.
Problem type appears to be: con
Time for symbolic processing: 0.7831 seconds
Starting numeric solver
```

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

```
Problem: --- 1: Optimal Robot Path Planning    f_k      3.436116521122743400
              sum(|constr|)                    0.000000001290310542
              f(x_k) + sum(|constr|)            3.436116522413053900
              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 142
CPU time: 1.046875 sec. Elapsed time: 1.083000 sec.
Problem type appears to be: con
Time for symbolic processing: 0.77179 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|)                    0.000000001480086011
              f(x_k) + sum(|constr|)            3.435021213384230600
              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 127
CPU time: 1.187500 sec. Elapsed time: 1.193000 sec.
Problem type appears to be: con
```


Time for symbolic processing: 0.76153 seconds

Starting numeric solver

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=====

Problem: --- 1: Optimal Robot Path Planning	f_k	3.435021211904145700
	sum(constr)	0.000000001480139560
	f(x_k) + sum(constr)	3.435021213384285200
	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 73

CPU time: 1.109375 sec. Elapsed time: 1.116000 sec.

Problem type appears to be: con

Time for symbolic processing: 0.75962 seconds

Starting numeric solver

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

=====

Problem: --- 1: Optimal Robot Path Planning	f_k	3.435021211904146100
	sum(constr)	0.000000001480241824
	f(x_k) + sum(constr)	3.435021213384387800
	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: 1.156250 sec. Elapsed time: 1.135000 sec.

Problem type appears to be: con

Time for symbolic processing: 0.77604 seconds

Starting numeric solver

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=====

Problem: --- 1: Optimal Robot Path Planning	f_k	3.435021211904144800
	sum(constr)	0.000000001480152699
	f(x_k) + sum(constr)	3.435021213384297700
	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: 1.125000 sec. Elapsed time: 1.121000 sec.

Problem type appears to be: con

Time for symbolic processing: 0.77853 seconds

Starting numeric solver

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```
=====
Problem: --- 1: Optimal Robot Path Planning    f_k      3.435021211904145700
              sum(|constr|)                    0.000000001480186742
              f(x_k) + sum(|constr|)            3.435021213384332300
              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: 1.157000 sec.

Problem type appears to be: con

Time for symbolic processing: 0.75674 seconds

Starting numeric solver

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```
=====
Problem: --- 1: Optimal Robot Path Planning    f_k      3.435021211904146100
              sum(|constr|)                    0.000000001480182968
              f(x_k) + sum(|constr|)            3.435021213384329200
              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: 1.093750 sec. Elapsed time: 1.114000 sec.

Problem type appears to be: con

Time for symbolic processing: 0.78614 seconds

Starting numeric solver

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

```
=====
Problem: --- 1: Optimal Robot Path Planning    f_k      3.435021211904145200
              sum(|constr|)                    0.000000001480191797
              f(x_k) + sum(|constr|)            3.435021213384337200
              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 116

CPU time: 1.156250 sec. Elapsed time: 1.174000 sec.

Problem type appears to be: con

Time for symbolic processing: 0.78533 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)	0.000000001480079299
	f(x_k) + sum(constr)	3.435021213384224800
	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 176

CPU time: 1.171875 sec. Elapsed time: 1.164000 sec.

Problem type appears to be: con

Time for symbolic processing: 0.76021 seconds

Starting numeric solver

===== * * * ===== * * *

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

=====

Problem: --- 1: Optimal Robot Path Planning	f_k	3.435762829921589200
	sum(constr)	0.000000000072012298
	f(x_k) + sum(constr)	3.435762829993601400
	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 149

CPU time: 1.296875 sec. Elapsed time: 1.319000 sec.

Problem type appears to be: con

Time for symbolic processing: 0.7821 seconds

Starting numeric solver

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=====

Problem: --- 1: Optimal Robot Path Planning	f_k	3.448153529136041200
	sum(constr)	0.000000001249936092
	f(x_k) + sum(constr)	3.448153530385977400
	f(x_0)	15.000000000000000000

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

SNOPT 7.2-12 NLP code
Optimality conditions satisfied

FuncEv 354 GradEv 352 ConstrEv 352 ConJacEv 352 Iter 125 MinorIter 5785
CPU time: 16.140625 sec. Elapsed time: 16.146000 sec.
Problem type appears to be: con
Time for symbolic processing: 0.99233 seconds
Starting numeric solver

===== * * * ===== * * *

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=====

Problem: --- 1: Optimal Robot Path Planning	f_k	4.416510475597407400
	sum(constr)	0.000000012934650784
	f(x_k) + sum(constr)	4.416510488532058100
	f(x_0)	15.000000000000000000

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

FuncEv 40 GradEv 38 ConstrEv 38 ConJacEv 38 Iter 37 MinorIter 265
CPU time: 3.562500 sec. Elapsed time: 3.575000 sec.
Problem type appears to be: con
Time for symbolic processing: 0.98706 seconds
Starting numeric solver

===== * * * ===== * * *

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

=====

Problem: --- 1: Optimal Robot Path Planning	f_k	3.435021211884191000
	sum(constr)	0.000000000031032204
	f(x_k) + sum(constr)	3.435021211915223000
	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 200
CPU time: 1.593750 sec. Elapsed time: 1.628000 sec.
Problem type appears to be: con
Time for symbolic processing: 0.97162 seconds
Starting numeric solver

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

=====

Problem: --- 1: Optimal Robot Path Planning	f_k	3.443478051051706700
	sum(constr)	0.000000000203044907
	f(x_k) + sum(constr)	3.443478051254751400
	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 169
 CPU time: 1.781250 sec. Elapsed time: 1.783000 sec.
 Problem type appears to be: con
 Time for symbolic processing: 0.98878 seconds
 Starting numeric solver

```
===== * * * ===== * * *
TOMLAB - Tomlab user Demo license 999100. Valid to 2016-05-09
=====
Problem: --- 1: Optimal Robot Path Planning    f_k          3.557320298456920300
              sum(|constr|)                    0.000000000025746419
              f(x_k) + sum(|constr|)            3.557320298482666800
              f(x_0)                          15.000000000000000000
```

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

FuncEv 124 GradEv 122 ConstrEv 122 ConJacEv 122 Iter 102 MinorIter 2464
 CPU time: 11.265625 sec. Elapsed time: 11.252000 sec.
 Problem type appears to be: con
 Time for symbolic processing: 1.0009 seconds
 Starting numeric solver

```
===== * * * ===== * * *
TOMLAB - Tomlab user Demo license 999100. Valid to 2016-05-09
=====
Problem: --- 1: Optimal Robot Path Planning    f_k          3.435021211896570400
              sum(|constr|)                    0.0000000001284586855
              f(x_k) + sum(|constr|)            3.435021213181157100
              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 152
 CPU time: 1.562500 sec. Elapsed time: 1.550000 sec.
 Problem type appears to be: con
 Time for symbolic processing: 0.99447 seconds
 Starting numeric solver

```
===== * * * ===== * * *
TOMLAB - Tomlab user Demo license 999100. Valid to 2016-05-09
=====
Problem: --- 1: Optimal Robot Path Planning    f_k          3.435021211888977800
              sum(|constr|)                    0.000000000039073996
```

$f(x_k) + \text{sum}(\text{constr})$	3.435021211928051900
$f(x_0)$	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 716
 CPU time: 2.078125 sec. Elapsed time: 2.090000 sec.
 Problem type appears to be: con
 Time for symbolic processing: 0.98017 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
	$\text{sum}(\text{constr})$	0.000000001480291422
	$f(x_k) + \text{sum}(\text{constr})$	3.435021213384436700
	$f(x_0)$	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 72
 CPU time: 1.500000 sec. Elapsed time: 1.478000 sec.
 Problem type appears to be: con
 Time for symbolic processing: 1.0454 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: 1.453125 sec. Elapsed time: 1.476000 sec.
 Trial>>