

Input n, Ps, W, and Type for NURBS Curve.

For OPEN type: 1

For CLOSED type: 2

n (input interger>3):

W (1 by n+1 matrix all positive values): auto input below

Ps (4 by n+1 matrix last rows is all ones): auto input below

Open or Closed Value: auto input below

This program output are n, Ps, W and Type. Then plot the NURBS.

Type (Open=1) (Close=2) :1

n = 7

W =

7	4	7	9	2	6	6	6
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Ps =

-2	2	6	-3	15	-13	5	6
19	5	14	-17	-12	7	-1	3
-13	-19	-4	3	-17	10	-8	7
1	1	1	1	1	1	1	1

Max Curvature: 14.8426

Max Curvature x,y,z position =

-8.0094

4.2452

5.0913

Max Torsion: 62.8695

Max Torsion x,y,z position =

-6.9777

2.9129

4.1931

Check graph in plot.

For Numerical Values of type in desire values base off Workspace:

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