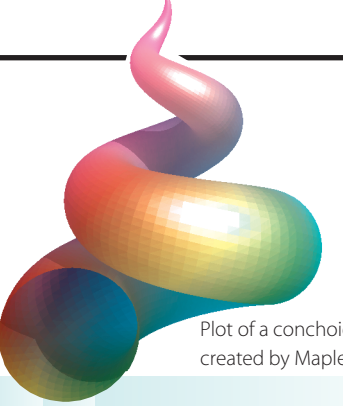
Mathematics Software Guide



Plot of a conchoid created by Maple 9.

The famous Möbius band (a surface with only one side) created by Maple 9.

Company/Product	Price	SPECIAL FUNCTIONS: Bessel functions of Real Argument	Bessel functions of Imaginary Argument	Zeta function	Dilogarithm	Legendre polynomials	Spherical harmonics in dimension 3	Normal distribution	Student's T distribution	Determinant of a matrix	Eigenvalues of a matrix	Numerically computes integrals on finite intervals	Infinite intervals	Numeric differential equation solver for nonlinear equations	Symbolic differential equation solver for nonlinear equations	Computes first 5 Taylor coefficients w/single command	Allows curve fitting to data array with user-defined functions
Aptech Systems Gause Mathematical*	$2,495	Yes						Yes	Yes	Yes	Yes	Yes		Yes			Yes
Harmonic Software O-Matrix	$265	Yes	Yes			Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes			User-defined and program-defined fits
Mackichan Software MuPAD Pro	$500*	Yes	Yes	Yes	Yes	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Mackichan Software Scientific Notebook	$199	Yes	Yes	Yes	Yes	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No, program-defined fits only
Mackichan Software Scientific WorkPlace	$750	Yes	Yes	Yes	Yes	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No, program-defined fits only
Maplesoft Maple 9	$1,795	Yes	Yes	Yes	Yes	Yes	Yes*	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	User-defined (some cases) and program-defined fits
Mathsoft Engineering MathCAD 11	$999	Yes	Yes	Yes	Yes	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes		Yes	Yes
The MathWorks MATLAB	$1,900	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		Yes	Yes	Yes	Yes
National Instruments Measurement Studio	$495							Yes	Yes	Yes	Yes						Yes
National Instruments LabVIEW	$995	Yes		Yes	Yes	Yes		Yes	Yes	Yes	Yes	Yes		Yes			Yes
National Instruments MATRIXx-Xmath	$1,695									Yes	Yes			Yes			
Network Theory Ltd. GNU Octave	Free*	Yes	Yes					Yes		Yes	Yes	Yes	Yes	Yes			
OriginLab Origin 7	$699	Yes	Yes			Yes		Yes	Yes	Yes	Yes	Yes					User-defined and program-defined fits
Texas Instruments Derive 5	$99-$199	Yes	Yes	Yes	Yes	Yes		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	User-defined and program-defined fits
Wolfram Research CalculationCenter 2	$295	Yes	Yes					Yes	Yes	Yes	Yes	Yes	Yes	Yes		Yes	Yes
Wolfram Research Mathematica 5	$1,880	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Universal Technical Systems TK Solver 5.0	$399*	Yes						Yes	Yes	Yes	Yes	Yes	Yes	Yes			Yes

Legend: blank= No, *= contact company for more information in this category.
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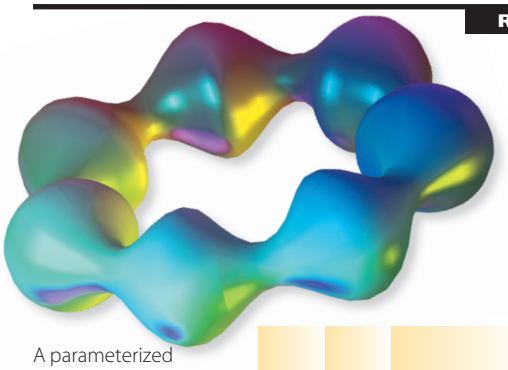
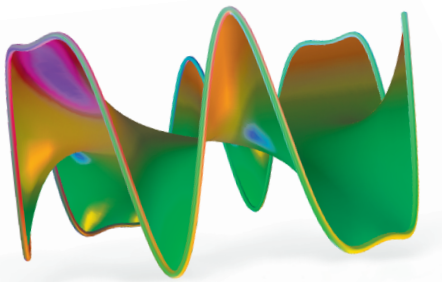


A parameterized surface of revolution created by Maple 9.



Graphical solution to the Dirichlet problem on a circle created by Maple 9.

Company/Product	Symbolic factoring of polynomials and sums	Built-in matrix editor	2D Graphics types	3D Graphics types	Programming language that allows multiline programs w/subroutines	Programming language w/debugger	Built in recursion	Allows calculation to arbitrary real precision	Phone	Web Address	Enter #
Aptech Systems Inc. Gause Mathematical		Yes	Line, bar, function	Surface, contour, regions	Yes	Yes	Yes		425-432-7855	aptech.com	170
Harmonic Software O-Matrix			Line, bar, function	Surface, contour, 3D curve	Yes	Yes	Yes		206-521-1008	omatrix.com	171
Mackichan Software MuPAD Pro	Yes		Line, pie, bar, function	Surface, contour, 3D curve, function	Yes	Yes	Yes	Yes	877-724-9673	mackichan.com	172
Mackichan Software Scientific Notebook	Yes	Yes	Line, function	Surface, contour, 3D curve				Yes	877-724-9673	mackichan.com	173
Mackichan Software Scientific WorkPlace	Yes	Yes	Line, function	Surface, contour, 3D curve				Yes	877-724-9673	mackichan.com	174
Maplesoft Maple 9	Yes	Yes	Line, pie, bar, function	Surface, contour, 3D curve, regions	Yes	Yes	Yes	Yes	800-267-6583	maplesoft.com	175
Mathsoft Engineering MathCAD 11	Yes	Yes	Line, bar, function	Surface, contour, 3D curve, regions	Yes*		Yes	Yes	617-444-8000	mathcad.com/ mathsoft.com	176
The MathWorks MATLAB	Yes	Yes	Line, pie, bar, function	Surface, contour, 3D curve, regions	Yes	Yes	Yes	Yes	508-647-7000	mathworks.com	177
National Instruments Measurement Studio		Yes	Line, bar	Surface, contour, 3D curve, regions	Yes	Yes	Yes*		800-258-7019	ni.com	178
National Instruments LabVIEW		Yes	Line, bar, function	Surface, contour, 3D curve, regions	Yes	Yes	*		866-522-8439	ni.com	179
National Instruments MATRIXx-Xmath		Yes	Line, pie, bar, function	Surface, contour, 3D curve, regions	Yes	Yes	Yes		877-493-2404	ni.com	180
Network Theory Ltd. GNU Octave			Line, bar, function	Surface, contour, 3D curve	Yes		Yes		(011) 44 117 3179309	octave.org	181
OriginLab Origin 7		Yes	Line, pie, bar, function	Surface, contour, 3D curve	Yes	Yes	Yes	Yes	800-969-7720	originlab.com	182
Texas Instruments Derive 5	Yes	Yes	Line, function	Surface, contour, 3D curve, regions	Yes		Yes	Yes	800-842-2737	education.ti.com	183
Wolfram Research CalculationCenter 2	Yes	Yes	Line, pie, bar, function	Surface, contour, 3D curve	Yes		Yes		217-398-0700	wolfram.com	184
Wolfram Research Mathematica 5	Yes	Yes	Line, pie, bar, function	Surface, contour, 3D curve, regions	Yes		Yes	Yes	217-398-0700	wolfram.com	185
Universal Technical Systems TK Solver 5.0		*	Line, pie, bar, function	Surface, contour, 3D curve, regions	Yes	Yes	Yes	*	800-435-7887	uts.com	186

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