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(vector product)	See also magnitude
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→ (vectorize operator)	adaptive smoothing of data
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%	See numerical methods
(parentheses)	aligning regions
+ (with line break)	aligning text
⊦, –, ·, and /	anchor points
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READ_HES_SAT function	nonlinear
READ_HSV Tunction READ_HSV_HUE function	polynomial
READ_HSV_HUE function READ_HSV_SAT function	using linear combinations of functions
READ_HSV_SAT function READ_HSV_VALUE function	regression functions
READ_IMAGE function	relational operators
READ_RED function	relative paths
READBMP function	for hyperlinks
readout of coordinates	for references
	relax function
graphs	replacing characters in math or text
plots	resizing
READPRN function	3D bar charts
compared to READ	3D our chards

3D scatter plots	finding
contour plot	finding multiple with solve blocks
graphs	finding symbolically
pictures	of polynomials
polar plots	using plots to find
surface plot	rounding off
text regions	row vectors
vector field plots	See vectors
Resource Center	rows function
accessing worksheets on Web	rpois function
bookmarks	rref function
contents	rsort function
QuickSheets	rt function
reference tables	RTF file
tutorial	See also rich text format
Web browsing in	runif function
Web library	rweibull function
resources, on-line	Twetoutt function
result format	
global	
local	
results	S
calculating	•
calculating with equations	
copying	sample standard deviation
dimensions in	sample variance
return statement	Save As dialog box
reverse function	saving
rexp function	annotations in Electronic Books
rF function	Electronic Book section
rgamma function	new file
rgeom function	worksheets
rich text format (RTF)	sbval function
right page boundary	scalar
right page margin	addition
rkadapt function	definition of
rkfixed function	division
rlnorm function	multiplication
rlogis function	scatter plots
rnbinom function	scatter plots (2D)
rnd function	scatter plots (3D)
rnorm function	Autoscale
Romberg integration	back planes
root function	borders
defining user function in terms of	boxes
displayed in a symbolic result	
failure of	changing marker formats
initial guess for	connecting by lines
secant method and	converting
	creating
tolerance for numeric approximation	formatting
roots	formatting axes

grid intervals	polar plots
grid lines	Si function
perspective	sigma (summation symbol)
resizing	for vector
setting axis limits	sign function (complex)
tick marks	sign function (real)
titles	signum function
Scriptable Object component	Simplify command
object model	simplify keyword
scrolling	simultaneous definitions
autoscroll	simultaneous equations
scrolling output table	solving numerically
copying values from	sine (sin) function
setting numerical format for	sine integral
search	singular value decomposition
Electronic Book	singular values of a matrix
in equations	singularities in trig functions
in text	sinh function
Search Book command	slope function (linear regression)
search function	smooth systems (differential equations)
secant (sec) function	smoothing data
secant method	soft pagebreaks
sech function	solve blocks
second derivatives	cannot be nested
calculating	constraints in
5	
for spline functions	defining a function that uses defining variables in terms of
second order differential equations	definition of
seed for random number generator seeded iteration	did not find solution error
with a vector	displaying results of
with several variables	end with <i>Find</i> or <i>Minerr</i>
selecting	expressions allowed in
graphs	finding multiple solutions
math expression	finding vector of results
pagebreak	Given in
regions	solving for different variables
several equations	too few constraints in
text	using effectively
selection rectangle	using to solve symbolically
semicolon, in range variable definitions	values returned by
separating overlapping regions	Solve command
series	Solve for Variable command
series keyword	solve keyword
Set Lockable Area command	solving equations
shading	differential equations
contour plots	See also solve blocks
surface plots	with <i>lsolve</i>
Shi function	with root function
Show Border option	with solve blocks
Show Markers	with Solve for Variable
graphs	with solve keyword

sorting vectors and matrices speaces, inserting or deleting spell-checking spline functions end conditions for example using multivariate second derivatives for spreadsheets ASCII data from exchanging data with exchanging data from square root estimating arithmetically stack function stack overflow error standard deviation (stdev) function standard normal distribution teaminative distribution functions density functions interpolation interpolation interpolation interpolation interpolation interporation interpolation interporation interporation interporation multivariate cubic spline multivariate polynomial regression nonlinear regression polynomial regression steep function steep graph speciation stiff function stiff function steep graph graph graph graph speciation stiff function stiff function steep graph graph graph speciation stiff function steep graph graph graph graph speciation stiff function stiff servines superscript summations, over a range superscript in use of exectory and matrix supmation studeur function stiff function stiff function stiff function stiff function stiff servines superscript in use of exectory superscript in use of exectory superscript in use of exectory superscript in use for ger column from matrix suprace function studeur function studeur function stiff servines superscript surmations, over a range superscript in use of exectory superscript in use for ger column from matrix suprace function surface polysometh function surface polysometh function surface polysometh surfa	sort function	string literals
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• .		
	See strings	Autoscale

back planes	technical support
borders	temperature
boxes	templates
changing the shading	calculation mode
changing view	creating new
controlling how bumpy	for math
converting	modifying
creating	used to save calculation mode
discontinuous	using to create a worksheet
formatting	text
formatting axes	alignment
grid intervals	changing font
grid lines	color
mesh on the surface	cut and paste in
of function of two variables	deleting
parametric	editing
•	
patch plots	entering
perspective	exporting to other programs
resizing	Greek letters in
setting axis limits	importing from other programs
tick marks	inserting equations in
titles	moving
vertical scale	moving insertion point in
svd function	regions
svds function	selecting
symbolic	selecting a word
equal sign	spell-checking
evaluation	styles
evaluation of programs	text box
evaluation returns long answers	text regions
keywords	changing width
transforms	creating
Symbolic Keywords palette	editing
Symbolics menu commands	hard line breaks
System of Units dialog box	how to exit
system of units, choosing	text styles
system or annis, encosing	applying
	creating
	modifying
	tick marks
	3D bar charts
T	
	3D scatter plots
	contour plots
tables	graphs
input	polar plots
output	surface plots
show only 50 elements	vector field plots
tangent (tan) function	tilde (~), used in global definitions
tanh function	time in headers and footers
Taylor series	time, inserting on a page
TCP/IP	Tip of the Day

Title page	tutorial
3D bar chart	two-point boundary value problems
3D scatter plots	typing over text
contour plots	
surface plots	
vector field plots	
titles	
3D bar charts	
3D scatter plots	U
contour plots	
graphs	U.S. Customary units
polar plots	undefined variables
surface plots	uniform distribution
vector field plots	Uniform Resource Locator
TOL variable	See URL
used in symbolic calculations	
used with integrals	unit impulse function
used with integrals used with root function	unit step function
used with roof function used with solve blocks	units
	alphabetical list
tolerance	alternative definitions
See TOL variable	base units
too few constraints (error)	CGS system
toolbar	changing dimension names
Electronic Book	common sources of error
Web	converting calculated results
top margin	default
top-to-bottom evaluation	defining
trace (tr) function	dimensional consistency
traces	dimensional values
graphs	errors in dimensions
polar plots	in calculated values
Traces page	in equations
polar plots	in tables
X-Y plots	metric
trailing zeros	MKS system
transcendental functions	placeholder
transforms	prefixes
Fourier (numerical)	SI
Fourier (symbolic)	U.S. customary
Laplace	Unlock Area command
symbolic	until function
wavelet	update
Z	file access functions
Transpose command	results in window
transpose of matrix	window manually
trig keyword modifier	worksheet
trigonometric functions	worksheet window
with degrees and radians	URL
truncation	
See floor function	Collaboratory
truncation functions	for worksheet
u uneation functions	MathSoft home page

Use Default Palette command	properties of
user functions	when to use
array arguments	vectors
defined in terms of <i>root</i>	as arguments to user functions
defined in terms of solve blocks	as array elements
errors in	calculations by element
evaluating variables in	column vectors
valid names	combining
	combining with augment function
	combining with stack function
	computing with
	cross product
V	defining
V	defining several variables at once
	displayed as scrolling output tables
Var function	dot product
var function	functions for
variables	graphing
complex	limit on size
defining	magnitude
defining several at once	norm
global definitions of	numbering elements
in red	operators for
matrices	ORIGIN used with
names	row
predefined	solve blocks applied to
range variables	sorting elements
string	start with element zero
substituting for	subscripts
vectors	sum elements of
variance function	sum of elements operator
VBScript	undefined elements filled with zeros
vec2str function	vector arithmetic
vector field plots	vectorize operator
creating	when to use subscripts
formatting	vertical scale
formatting axes	3D bar charts
from complex matrices	surface plots
from real matrices	video clips
grid intervals	View page
grid lines	3D bar charts
perspective	3D scatter plots
resizing	contour plots
tick marks	surface plots
titles	Visual Basic Scripting Edition
vector product	
vector subscript	
vector sum operator	
vectorize operator	
effect of	
how to type	

W	wrapping equations
**	WRITE function
	WRITEBMP function
W function	WRITEPRN function
wait message	compared to WRITE
wave function	WRITERGB function
wavelet transforms	WWW
Web	See World Wide Web
See World Wide Web	
Web library	
Web toolbar	
Weibull distribution	
while loops	X
windows	7.
generally	
multiple	X-Y Plot default dialog box
scrolling	X-Y Plot dialog box
update results automatically	Axes page
update results manually	Defaults page
zooming in and out of	Labels page
Wizards	Traces page
for inserting a component	X-Y plots
worksheets	data
definition of	parametric
exporting as RTF	QuickPlot
formatting	stem
hyperlinking	X-Y Trace dialog box
in pop-up window	X-Y Zoom dialog box
including by reference	
mailing	
opening	
opening from Internet	
order of evaluation	V
posting on the Collaboratory	,
printing	
referencing in another worksheet	Y0, Y1, and Yn Bessel functions
removing from the Collaboratory	y-intercept
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saving	
saving as Mathcad 6 format	
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library	See roots
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MathSoft store	Zoom command
	Zoom comiliand

toolbar

zooming graphs polar plots windows ztrans keyword z-transforms