

Maple 11 Cheat Sheet

Syntax

- ;** Ends a command with a semicolon. *e.g.* `5+6; plot(x);`
- :** Suppresses the display of output by ending a command with a colon. Useful for lengthy outputs or loading packages. *e.g.* `with(plots): 5000;`
- :=** Assigns an expression to a variable. *e.g.* `a:=3; b:=a*x;` assigns 3 to *a* and $3 + x$ to *b*. `x:=*x*`; unassigns the variable *x*.
- =** Defines mathematical equations. *e.g.* `y = x^2 + 3*x + 4;` produces the equation $y = x^2 + 3x + 4$.
- %** Refers to the last result. *n* of the % symbols refers to the *n*th previous result. *e.g.* `%%` gives the third previous result.
- f:=(x,y,...)->...** Defines a function. *e.g.* `f := (x,y) -> x^2+y^2;` defines the function $f(x,y) = x^2 + y^2$. `f(0,1)` evaluates $f(0,1) = 0^2 + 1^2 = 1$. `plot3d(f(x,y), x=0..1, y=0..1);` plots the function.
- L:=[x1, x2, ..., xn]** Defines a list (ordered sequence) *L* of expressions $x_1, x_2, \dots, x_n$. Refer to the *n*th list item by *L*[*n*]. To extract the contents of a list, use the empty selection operator []. *e.g.* `A:=[1,2,3]; A[3];` returns 3. `A[]` returns 1,2,3.
- S:={x1, x2, ..., xn}** Defines a set *S* of expressions $x_1, x_2, \dots, x_n$. Use the empty selection operator[] to extract the contents of a set. *e.g.* `S:={5,3,3,2,1}; S[];` returns 1,3,4,5.
- ?topic** Displays help on topic.

All identifiers (variables and functions) are **case sensitive**. *e.g.* *X* is different from *x*. *Pi* and *pi* are different!

In general, a function whose name begins with a capital letter is an inert form of the function who has the same name but begins with lower case. Inert functions are unevaluated and may be manipulated and printed in a prettyprinted format. *e.g.* `Int(x,x);` returns $\int x dx$ and is the inert form of `int(x,x);`, which evaluates to $x^2/2$.

Usages

Right-click an expression to display a context-sensitive menu of applicable options.

!!! Click the  icon to execute the entire worksheet. Useful when you have changed expressions that affect subsequent commands.

Keyboard Shortcuts

Enter	Evaluate
Ctrl + =	Evaluate and display inline (Document Mode)
Ctrl + Space	Complete symbol/command
F8	Toggle Math/Text entry (Document Mode)
	Toggle 2-D/1-D Math entry (Worksheet Mode)
Ctrl + F1	Maple help

Defined Constants

Pi	$\pi \approx 3.14159265\dots$
I	complex number $I = \sqrt{-1}$
infinity	∞
gamma	Euler's constant $\gamma \approx 0.5772156649\dots$
Catalan	Catalan's constant $\approx 0.915965594\dots$
exp(1)	$e \approx 2.718281828$

Commands

General

with(package); Loads the specified Maple package.

unassign(var); Deletes a value stored in the given variable. *e.g.* `a:=1; unassign('a');` unassigns the identifier *a* so that it does not contain the value of 1 anymore.

restart; Clears internal memory. The settings of all identifiers are resetted.

Common Mathematical Operations

$x + y - z$;	addition and subtraction
$x * y$;	multiplication
x / y ;	division
x^y ;	power x^y
<code>sqr(x);</code>	square root $\sqrt{x}$
<code>exp(x);</code>	exponential e^x
<code>ln(x);</code>	natural log $\ln(x)$
<code>log[b](x);</code>	logarithm $\log_b(x)$
<code>surd(x,n);</code>	real <i>n</i> th root $\sqrt[n]{x}$
<code>sin(x); cos(x); tan(x);</code>	trigonometric functions
<code>arcsin(x); arccos(x);</code>	inverse trig functions
<code>arctan(x);</code>	

Numerical Manipulation

eval(expression); Evaluates the given expression. *e.g.* `a:=b^2; b:=c+1; c:=2; eval(a);` returns 9.

eval(expression, x=value); Evaluates expression at the given point $x = \text{value}$. *e.g.* `eval(x^2+5*x, x=1);` evaluates the polynomial $x^2 + 5x$ at $x = 1$ and returns 6.

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