

Quick Reference

Math

Define a function $f(x)$

Graph a function

Compute the derivative $f'(x)$

Compute the second derivative $f''(x)$

Compute the integral $\int f(x) dx$

Take the limit $\lim_{x \rightarrow a} f(x)$

Solve an equation for x

Simplify an expression

Maple

`f := x -> ...`

`plot(....)`

`D(f)(x);`

or `diff(f(x),x);`

or `Diff(f(x),x); value(%);`

`(D@@2)(f)(x);`

or `diff(f(x),x,x);`

or `Diff(f(x),x,x); value(%);`

`Int(f(x),x); value(%);`

or `int(f(x),x);`

`Limit(f(x),x=a); value(%);`

or `limit(f(x),x=a);`

`solve(... ,x);` or `fsolve(... ,x);`

`simplify(...);`

Math	Maple	Math	Maple
e^x	<code>exp(x)</code>	π	<code>Pi</code>
$\ln x$	<code>ln(x)</code>	∞	<code>infinity</code>
\sqrt{x}	<code>sqrt(x)</code>	x^n	<code>x^n</code>
$\sin x$	<code>sin(x)</code>	$\arcsin x$	<code>arcsin(x)</code>

same for other trig functions.

Other symbols

`;` end a maple command

`:` end a command and suppress output

`%` last executed statement

`#` for comments