

MAPLE commands for MATH 122

Command	Meaning	Syntax	Example
:=	is defined to be	name := expression;	$f := x^2;$
;	end of statement	statement;	f;
?	get help	? keyword	? subs
plot	curve plotting	plot(expression, variable=range);	plot(x^2 , x=1..3);
->	defines a function	fname:=variable->expression;	f:=x-> x^2 ;
solve	solve an equation	solve(equation, variable);	solve($x^2=2$, x);
fsolve	solve for a decimal value	fsolve(equation, variable=range);	fsolve($x^2=2$, x=1..2);
subs	substitute into an expression	subs(equation, expression);	subs(x=7, x^2);
eval	evaluate	eval(expression);	eval(cos(Pi));
evalf	eval to a decimal	evalf(expression);	evalf(sqrt(2));
simplify	simplify	simplify(expression);	simplify(cos(Pi)+1);
diff or Diff	differentiate	diff(expression, variable);	diff(x^2 , x);
dsolve	solve a differential equation	dsolve(equation, unknown function);	dsolve(diff(y(t), t)=2*y(t), y(t));
rhs	right hand side of an equation	rhs(equation);	rhs(y(t)= t^2+5);
int or Int	integrate	int(expression, variable);	int(x^2 , x);
int or Int	definite integral	int(expression, variable=range);	int(x^2 , x=1..3);