

f	<code>whattype(f)</code>	<code>op(0,f)</code>	<code>nops(f)</code>	<code>op(1,f)</code>	<code>op(2,f)</code>
-3	integer	Integer	1	-3	ERROR
2/3	fraction	Fraction	2	2	3
3.14	float	Float	2	3.14	-2
[a,b,b]	list	list	3	a	b
{a,b,b}	set	set	2	a	b
$3x^4y$	``*''	``*''	3	3	x^4
$-y^2$	``*''	``*''	2	-1	y^2
x^4	``*''	``*''	2	x	y^4
$1/x$	``*''	``*''	2	x	-1
$2x^2 - 3y + \sin t$	``+''	``+''	3	$2x^2$	$-3y$
$\exp(x)$	function	exp	1	x	ERROR
$\text{diff}(f(x), x)$	function	diff	2	$f(x)$	x
y	symbol	symbol	1	y	ERROR
$a[1,2,3]$	indexed	a	3	,	2
$a(1,2,3)$	function	a	3	/	2

= if `type(x, symbol)` or `type(x, indexed)` then ...
= if `type(x, name)` then ...

= if `type(x, integer)` or `type(x, fraction)` or `type(x, float)` Then ...
= if `type(x, numeric)` then ...

Type algebraic includes all types above except list, set