Basics

(%i3) %pi ;
     %e ;
     %i ;

(%o1) π

(%o2) $\%e$

(%o3) $\%i$

(%i5) bfloat (%pi) ;
     %e , numer ;

(%o4) $3.141592653589793b0$

(%o5) 2.718281828459045

(%i7) bfloat (%pi) , fpprec : 100 ;
     %e , bfloat , fpprec = 100 ;

(%o6) $3.141592653589793238462643383279502884197169399375105820974944592307816406286208998628034825342117068b0$

(%o7) $2.718281828459045235360287471352662497757247093699959574966967627724076630353547594571382178525166427b0$

(%i8) a : 10 ;

(%o8) 10

(%i9) b : 20 ;

(%o9) 20

(%i10) a + b ;

(%o10) 30

(%i11) V : m · s · k ;

(%o11) kms

(%i12) V , m : 10 , s : 20 , k : 30 ;

(%o12) 6000

(%i13) V , m = 10 , s = 20 , k = 30 ;

(%o13) 6000

(%i14) z : ' a ^ 2 ;

(%o14) a^2

(%i15) ev (z) ;

(%o15) 100

(%i16) f (a) : = a ^ 2 ;

(%o16) $f(a) := a^2$

(%i17) f (2) ;

(%o17) 4

(%i18) f (a , b , c) : = a + b + c ;

(%o18) $f(a , b , c) := a + b + c$

(%i19) f (a , b , a + b) ;

(%o19) 60

(%i20) f (x) : = if x%2 = 0 then 3 · x / 2 else x + 1 ;

(%o20) $f(x) := $ if $x\%2 = 0$ then $\dfrac{3x}{2}$ else $x + 1$

(%i21) f (10) ;

(%o21) 11

(%i22) f (11) ;

(%o22)   12

(%i23) f (12) ;

(%o23)   13

(%i24) for i : 0 while i < = 10 do (print (f (i))) ;

1234567891011

(%o24)   *done*

(%i25) makelist (f (x) , x , 1 , 100) ;

(%o25)   [2 , 3 , 4 , 5 , 6 , 7 , 8 , 9 , 10 , 11 , 12 , 13 , 14 , 15 , 16 , 17 , 18 , 19 , 20 , 21 , 22 , 23 , 24 , 25 , 26 , 27 , 28 , 29 , 30 , 31 , 32 , 33 , 34 , 35 , 36 , 37 , 38 , 39 , 40 , 41 , 42 , 43 , 44 ,

(%i26) sin (x) + cos (x) ;

(%o26) $\sin(x) + \cos(x)$

(%i27) % , x = 0 ; /*to get the last output we use %*/

(%o27)   1

(%i28) %o1 , numer ; /*to get a output from any line we use %oN*/

(%o28)   3.141592653589793

(%i29) %i26 , x = %pi ; /*to get a input from any line we use %iN*/

(%o29)   −1

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