[7.48] Create functions in programs

Creating functions in a program is straightforward, as long as you really define them as functions and not expressions. For example, suppose we have created this function

```
chi(a,x,b)
Func
when(x>a and x<b,1,0)
EndFunc
```

and we want to use it to create a function g(x) of the form

```
chi(a,x,b)*f(x)
```

which can be evaluated within the program, or at the entry line. We define the function within the program like this:

```
chi(1,x,2)*x^2→g(x)
```
this works, as a function

and not like this:

```
chi(1,x,2)*x^2→g
```
this DOES NOT work, as an expression

The second example results in an *Undefined variable* message if we try to evaluate *g* at the entry line.

If you want g(x) to be a local function, you must declare *g* with the *Local* command.