[7.1] Create evaluated Y= Editor equations in programs

You can create equations in the 89/92+ by storing the expression to the system variables yn(x), where 'n' is the number of the equation. For example,

```
a*x^2+b*x+c→y1(x)
```

stores the expression to the first equation, y1(x). But if *a*, *b* and *c* have numeric values, those values will not be substituted in the expression because the expression has not been evaluated. You can force the evaluation using *string()* and *expr(),* like this:

```
evalyx()
prgm
local a,b,c,ex

4→a
3→b
2→c

a*x^2+b*x+c→ex

expr("define y1(x)="&string(ex))

Endprgm
```

evalyx() puts this equation in the Y= Editor:

```
y1=4x^2+3x+2
```

This method will work in a program, but not in a function. Since *a*, *b* and *c* were defined before the *expr()* function, those values are replaced. Any variables which are not defined will remain variables. Note that it is not necessary to define the *ex* variable; this works, too:

```
expr("define y1(x)="&string(a*x^2+b*x+c))
```

(credit declined)