Evaluating Functions on the TI-89

We can evaluate a function for various values of x without having to reenter the entire function each time.

Evaluate $f(x) = x^2 - 6$ for $x = -1$, $x = 3$, $x = 0$, $x = \dfrac{3}{4}$

Diamond Y=
(Clear previously saved functions)
$Y1 = x^2 - 6$
HOME
Key in   **Y1(-1)**   Gives an answer of -5
                Y1(3)   Gives an answer of 3
                Y1(0)   Gives an answer of -6
                Y1(3/4)   Gives an answer of -87/16

Another method uses the table key.

Diamond Y=
$Y1 = x^2 - 6$
Diamond TblSet
Arrow Down to Independent
Arrow Right and Select **2: Ask**
Enter

Diamond Table
(Some values may be given. **F1** then **8** and **Enter** to clear the table) Enter a value for x.
Enter. Answer will show in Y1 column.