

## Evaluating Functions on the TI-92

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  $x = -1$ ,  $x = 3$ ,  $x = 0$ ,  $x = \frac{3}{4}$

### **Diamond Y=**

(Clear previously saved functions)

$$Y1 = x^2 - 6$$

### **Diamond HOME**

Key in	<b>Y1(-1)</b>	Gives an answer of -5
	<b>Y1(3)</b>	Gives an answer of 3
	<b>Y1(0)</b>	Gives an answer of -6
	<b>Y1(3/4)</b>	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.