desired results.

## Last X

Last X is the name of the register reserved for storing the last number displayed that precedes the last function performed. Last X is set to zero when you switch the calculator ON and it remains unchanged until a calculation is performed. At such time the number displayed is saved in Last X as an automatic prelude to the calculation. The saved value is recallable to the X-register (repeatedly, if desired) by pressing g LSTX.

Last X is particularly useful in expressions like the following:

$$\frac{\sin x}{x}$$
,  $y^x - \sqrt{x}$ ,  $\sin x + \cos^3 x$ 

Let's try the first expression in an example to see how this works.

**Sample Case.** Calculate  $\frac{\sin x}{x}$  for  $x = 52.47^{\circ}$ . (Assume degrees mode is set.)

Press

See Displayed

52.47

f SIN

g LST X

Last X is also useful in recovering from accidental wrong keystrokes such as pressing the wrong arithmetic key or entering a wrong number. For example, if you were performing a long calculation where you meant to subtract 3 from 12 and you divided instead, you could compensate as follows:

#### Press

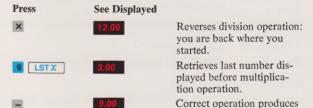
### See Displayed

12 ENTER ↑ 3 ÷

Oops — you wanted to subtract.

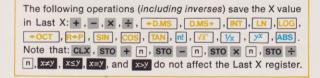
LSTX

Retrieves last number preceding division operation.



If you want to correct a number in a long calculation, Last X can save you from starting over. For example, divide 12 by 2.157 after you have divided by 3.157 by mistake.

Press	See Displayed	
12 ENTER♠ 3.157 ÷	3.80	You wanted to divide by <b>2.157</b> , not <b>3.157</b> .
g LSTX	3.16	Retrieves last number displayed preceding operation.
×	12.00	You're back at the beginning
2.157 ÷	5.56	Correct operation produces desired results.



# Recalling $\pi$

 $\pi$  is a fixed constant provided in your HP-65. Merely press g m whenever you need it in a calculation.

Sample Case: Calculate the area of a circle with a radius of 3. Area =  $\pi 3^2$ .