# Using Trace and Zoom Integer with Several Graphs MathPrint

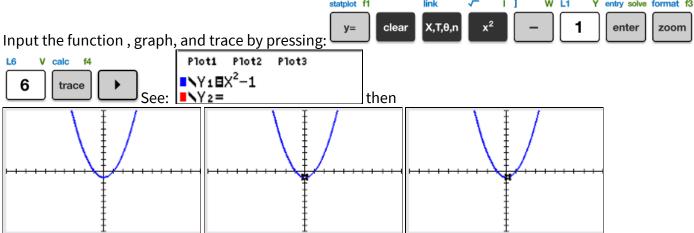
## **Objectives:**

- Use TRACE to move along a given graph and identify ordered pairs
- Move the cursor among different functions
- Use Zoom Integer to identify integer ordered pairs on a graph

### Use TRACE to move along a given graph and identify ordered pairs

**KEY POINT:** When using trace, and, the cursor moves along the graph and shows coordinates of ordered pairs on the graph.

**Example 1:** Graph  $y_1 = x^2 - 1$  in a standard window. Then use TRACE to observe ordered pairs.



**PRO TIP:** Get comfortable with the left and right directional arrows.

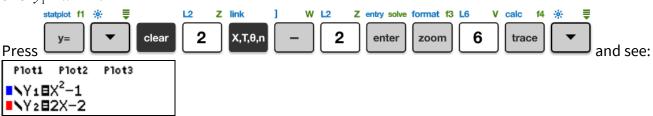
Repeatedly press and then to move along the graph, observing the coordinates of the ordered pairs at the bottom of the screen.

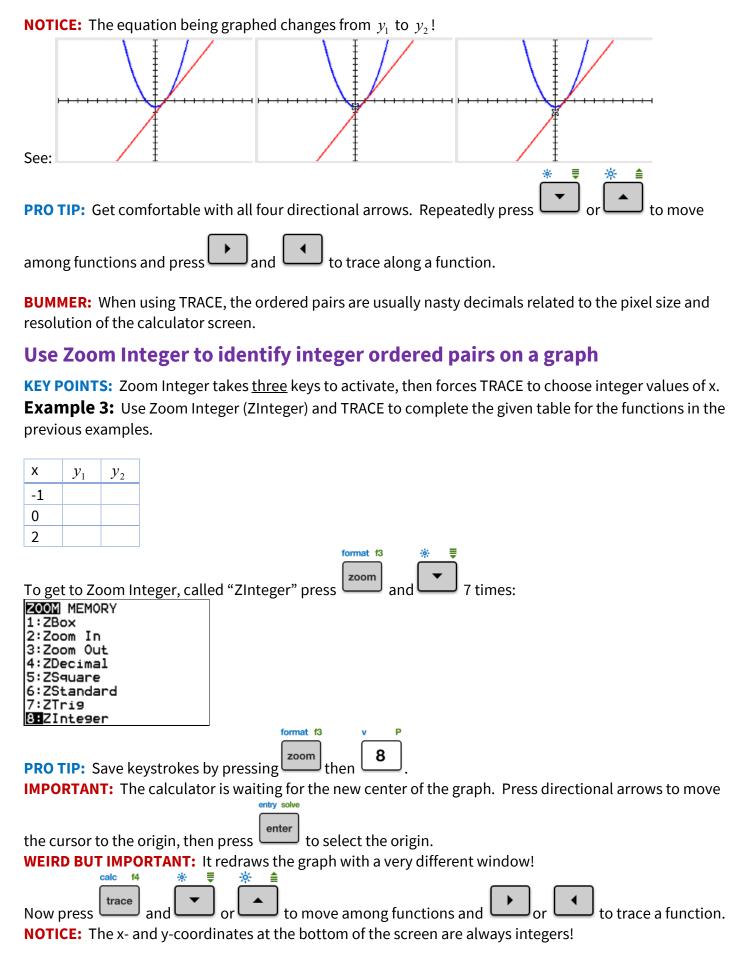
**NOTICE:** The equation being graphed is displayed in the upper left corner!

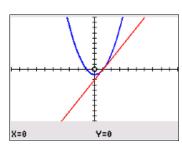
# Move the cursor among different functions

**KEY POINT:** When using trace, and the Y= menu.

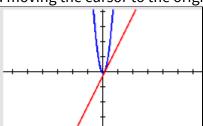
**Example 2:** Add  $y_2 = 2x - 2$  to the graph from Example 1, then use and  $y_1 = x^2 - 1$ .



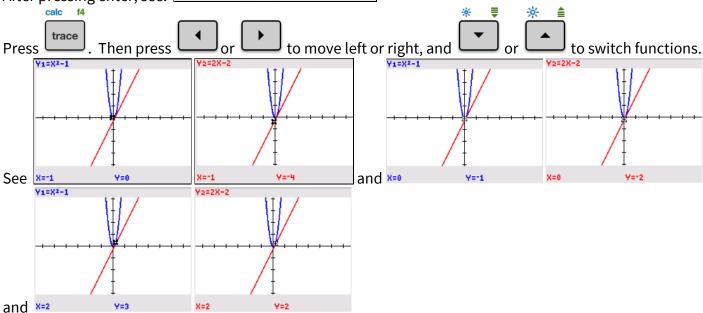




After pressing Zoom 8 and moving the cursor to the origin, see:



After pressing enter, see:

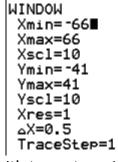


#### Answer:

Х	$y_1$	$y_2$
-1	0	-4
0	-1	-2
2	3	2

CURIOUS ABOUT THIS WINDOW? Press window and 7 times to see

tblset f2



It's trace step = 1 that makes the cursor move one whole unit each time.