



**Objective:** Graphing Quadratic Equations

**Homework QF-8** – NYA p.560 #11 – 13, 23 – 31 (odd)

Graphs on grids required - print graph paper?

**Do Now:** Arrange the functions from most wide to narrow.

1.  $y = 2x^2 + 14$     2.  $y = -3x^2 + x - 14$     3.  $y = \frac{1}{2}x^2$     4.  $y = \frac{2}{5}x^2 - 3x + 1$

**Exam Prep:** Which graph does not have any real roots (solutions)?

A)  $y = x^2$     B)  $y = -2x^2 + 4$     C)  $y = 2x^2 - 10$     D)  $y = -x^2 - 3$



The journey continues...

You REALLY need a TI graphing calculator.

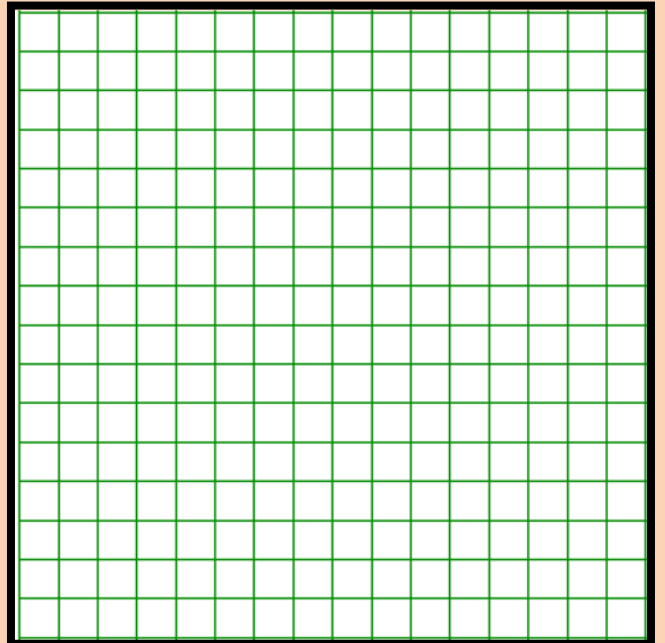
**Graphing Practice: Make a Table and Graph**

Plug in any x-values and find y-values to make points.

You may also find the axis of symmetry and vertex...

$$y = x^2 - 3x - 4$$

x	y



### Using Required Technology

Enter the graph into "y=" on your TI.

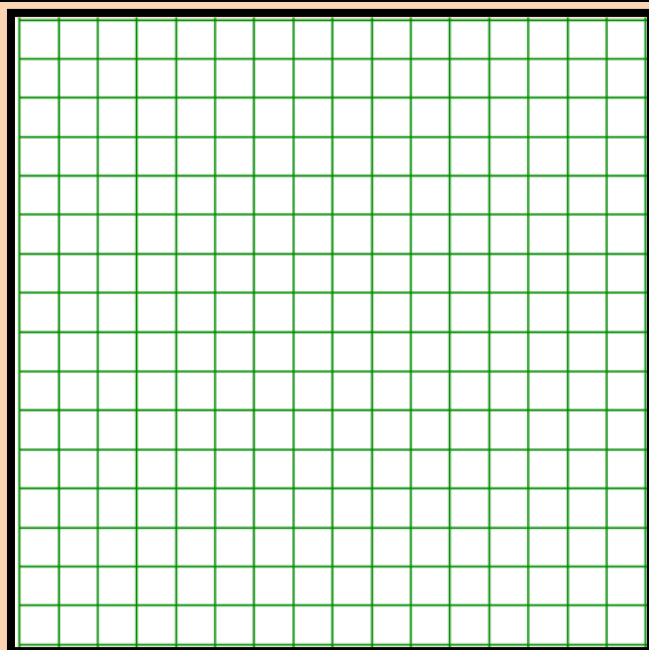
$$y = -x^2 + 4$$

#### Explore in Groups

- Graph
- Trace
- Window
- Zoom (standard 6!)
- Table
- TblSet (Table Setup)

Get the table from your calculator and graph it!

x	y



### More Graphing

$$y = \frac{1}{2}x^2 + 2x - 5$$

$$y = -2x^2 - 4x - 6$$

x						
y						

x						
y						

