**Distance Formula:** Given the two points (*x*1, *y*1) and (*x*2, *y*2), the distance between these points is given by the formula:

http://www.purplemath.com/modules/xyplane/dist07b.gif

The symbol Δ means “the change in.”

Example 1:

|  |  |  |  |
| --- | --- | --- | --- |
| |  |  |  | | --- | --- | --- | | c = 5Suppose you're given the two points (–2, 1) and (1, 5), and they want you to find out how far apart they are. The points look like this: |  | plotted points | |

Example 2:

**Find the distance between the points (–2, –3) and (–4, 4).**

I just plug the coordinates into the Distance Formula:

