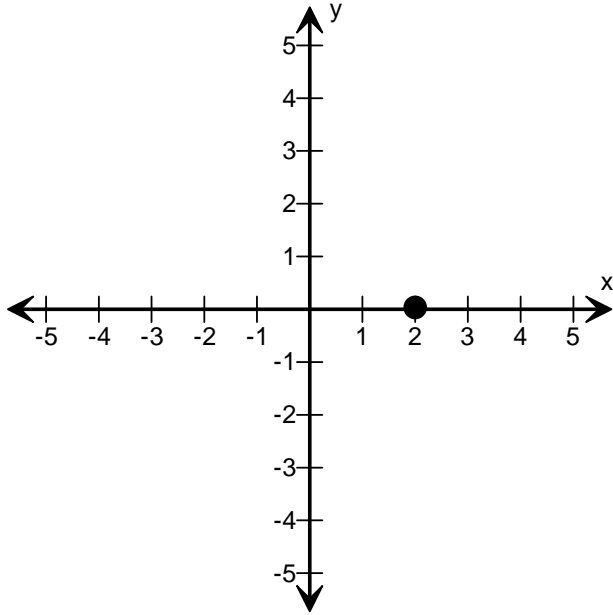Vertical Lines:
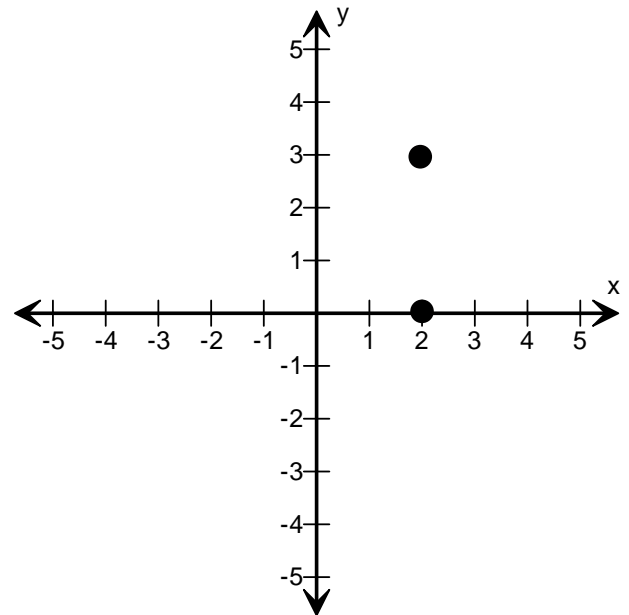
A vertical line is a line whose equation is of the form x=k. Let's looks at a picture to see what this means. Because the letter y is not present, it can be anything.
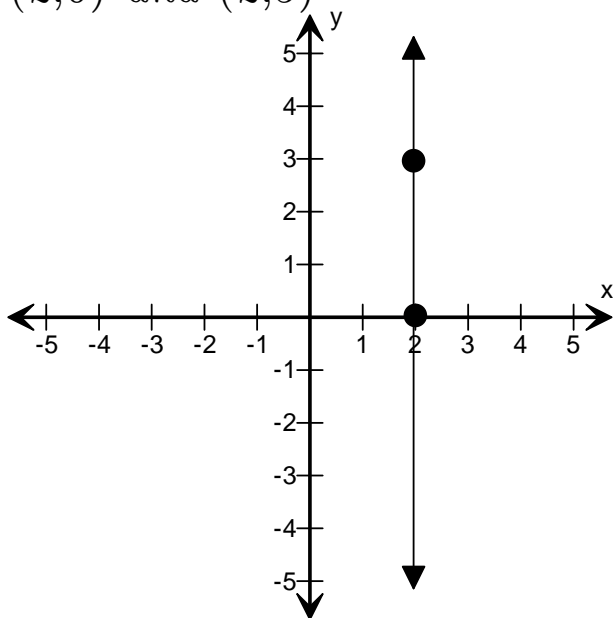
Example: Graph x=2.

1) Because y can be anything, choose y=0. Plot (2,0).

2) Because y can be anything, choose y=3. Plot (2,3).

3) Draw a vertical line through (2,0) and (2,3)

4) Write 3 other points that clearly indicate what it means to say that the y-coordinate can be anything.

$(2,5)$

$(2,-1)$

$(2,-2)$