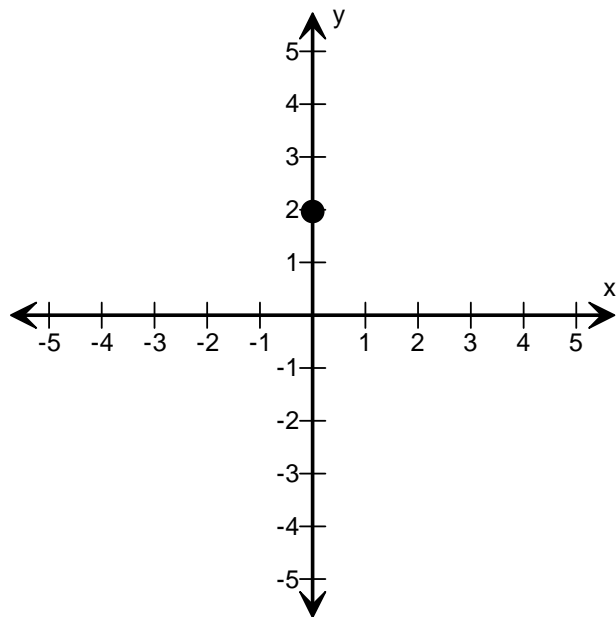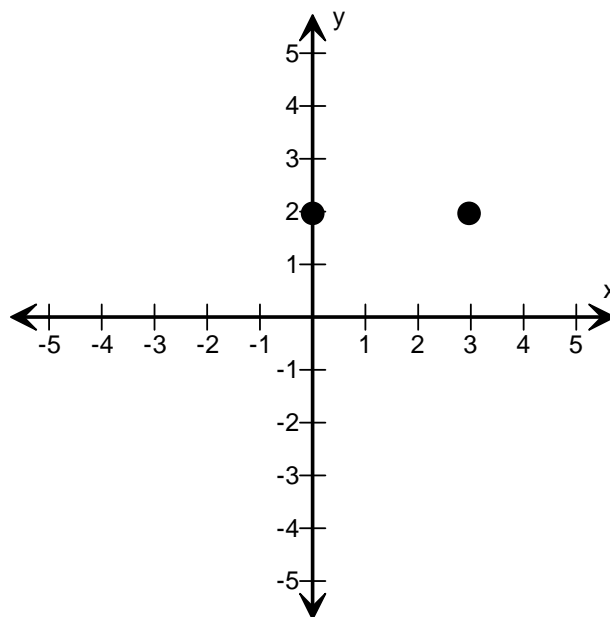## Horizontal Lines:

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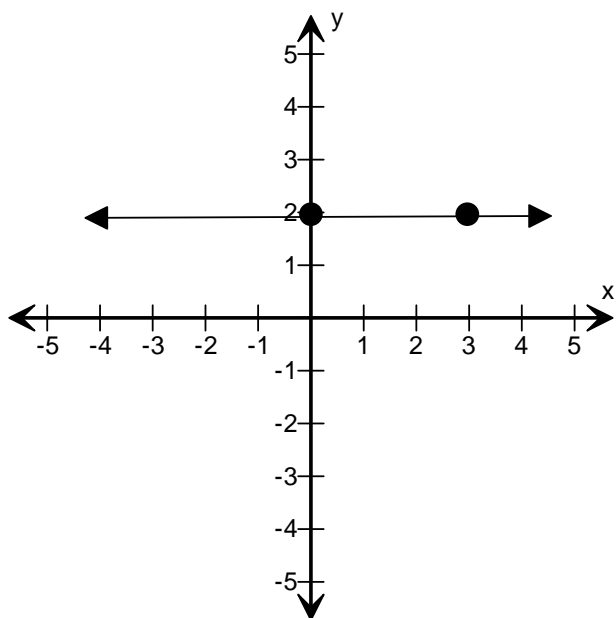
Example: Graph $y=2$.

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

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

3) Draw a horizontal line through $(0,2)$ and $(3,2)$

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

$(-1,2)$

$(2,2)$

$(5,2)$