Vertical Lines in the coordinate plane and their equations: basic facts
A vertical line in the plane has an equation of the form $x=c$, where $c$ is a real number.

The vertical line whose equation is $x=c$ consists of all the points in the plane whose $x$-value is the number $c$.

1) Draw the graphs of the vertical lines $x=3, x=-1$, and $x=\frac{1}{2}$ :

2) Find the equations of the vertical lines in this graph:

$3)$ What is the equation of the $y$-axis?
3) On the graph paper below, find the point $(4,5)$ and draw the vertical line which passes through that point. What is the equation of the line?:

4) On the graph paper below, find the point $(-3,0)$ and draw the vertical line which passes through that point. What is the equation of the line?:

