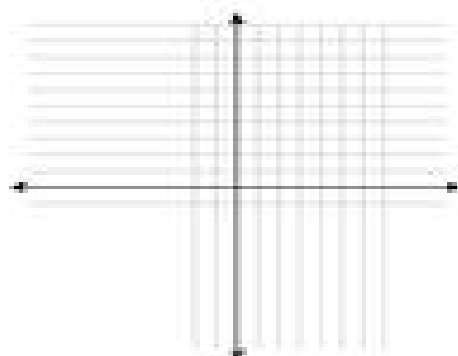
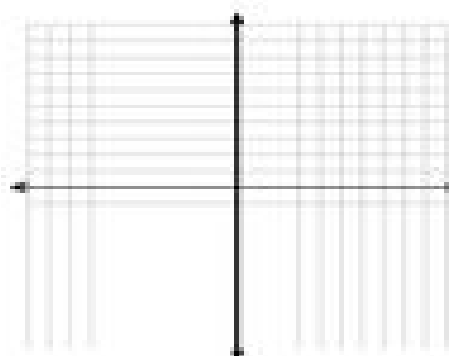


Graphing Horizontal and Vertical Lines

All linear equations can be written in the form $Ax + By = C$. When $A = 0$ the equation reduces to $By = C$ and the graph is a horizontal line. When $B = 0$ the equation reduces to $Ax = C$ and the graph is a vertical line.



In the coordinate plane, the graph of $y = b$ is a horizontal line.



In the coordinate plane, the graph of $x = a$ is a vertical line.

Graphing $y = b$

1. Graph the equation $y = 2$.
 - ❖ The equation does not have x as a variable. The y -value is always 2, regardless of the value of x . For instance, here are some points that are solutions
 $(-3, 2)$, $(0, 2)$, $(3, 2)$
 - ❖ The graph of the equations is a horizontal line 2 units above the x -axis.