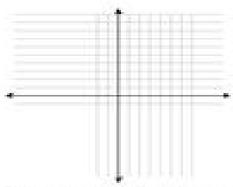
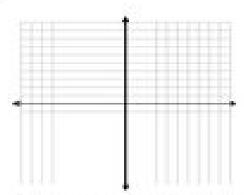
Graphing Horizontal and Vertical Lines

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=0 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

- 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