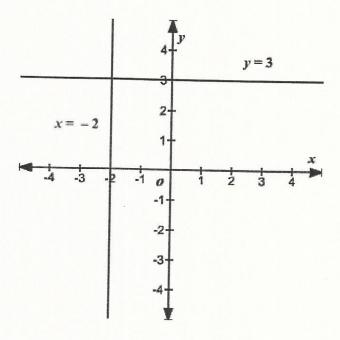
Vertical and Horizontal Lines

The equation of a vertical line is x = a where a is the x value of every point on the line. For example, on the vertical line below all points have an x value of -2. Therefore, the equation of that line is x = -2.

The slope of a vertical line is undefined: m = undefined



The equation of a horizontal line is y = b where b is the y value of every point on the line (including the y-intercept). For example, on the horizontal line above all points have a y value of 3. Therefore, the equation of that line is y = 3.

The slope of a horizontal line is equal to zero: m = 0

Only oblique lines have an equation which contains an "x" and a "y": In this case.... the equation is y = mx + b, where m = slope and b = y-intercept.

