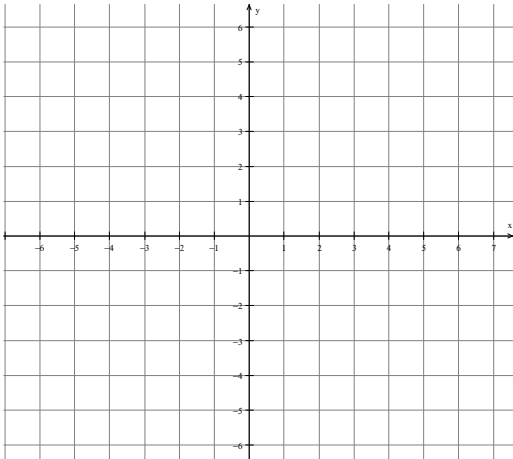Name: _____

Date: _____

Horizontal & Vertical Lines
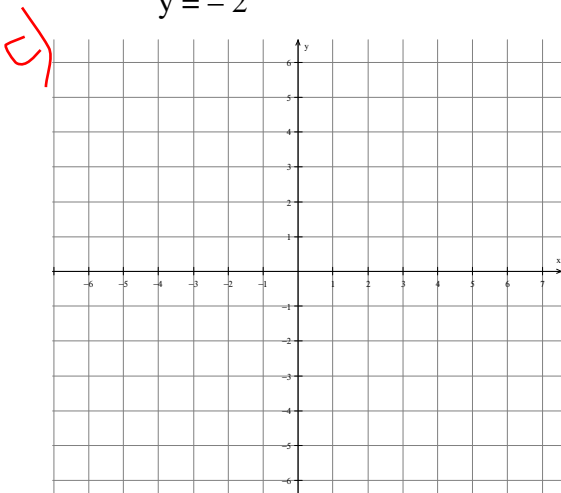
Horizontal Lines
- They do not have an x-intercept
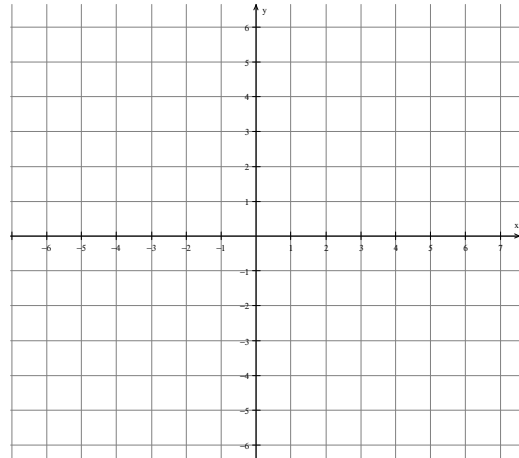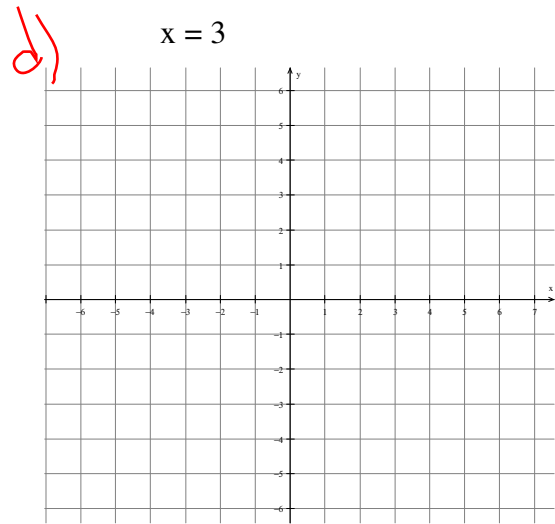- They are parallel to the x-axis
- The slope is zero
- The equation is $y = b$

Vertical Lines
- They do not have a y-intercept
- They are parallel to the y-axis
- The slope is undefined
- The equation is $x = a$

Represent graphically.

a) $y = 4$

b) $x = -3$

c) $y = -2$

d) $x = 3$

Write the equation for each line.

a) The slope is zero and the point (-4, 5) is on the line.

c) The slope is undefined and the point (6, -3) is on the line.

b) $m = 0$ and the point (3, -7) is on the line.

d) $m =$ undefined and the point (-3, 8) is on the line.
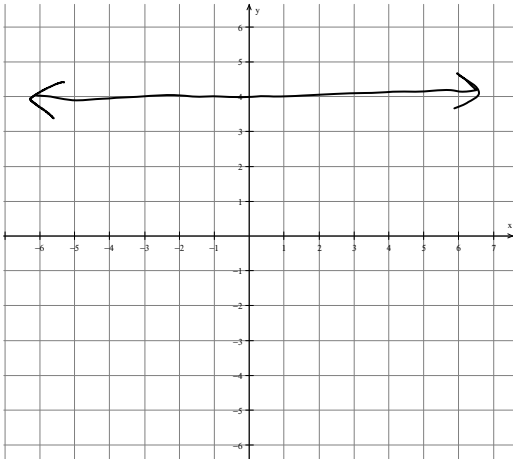
Name: _____

Date: _____

Horizontal & Vertical Lines

Horizontal Lines
- They do not have an x-intercept
- They are parallel to the x-axis
- The slope is zero
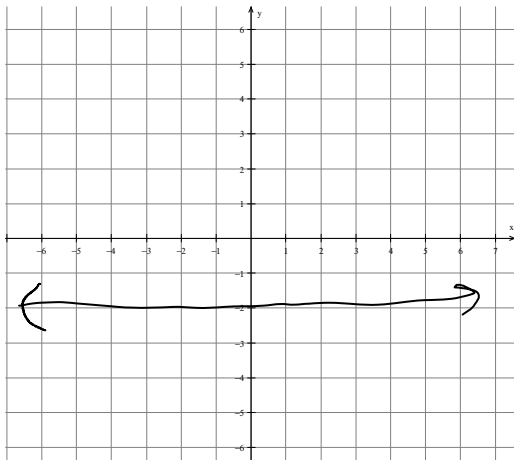- The equation is $y = b$

Vertical Lines
- They do not have a y-intercept
- They are parallel to the y-axis
- The slope is undefined
- The equation is $x = a$

Represent graphically.

a) $y = 4$

b) $x = -3$

$y = -2$

$x = 3$

Write the equation for each line.

a) The slope is zero and the point (-4, 5)
    is on the line.   *Horizontal y = ?*

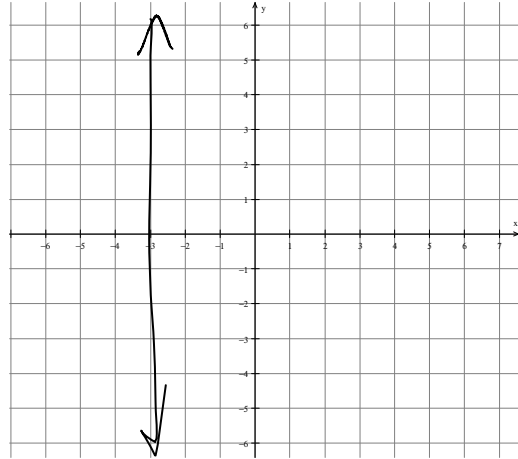 $y = 5$

b) $m = 0$ and the point (3, -7) is on
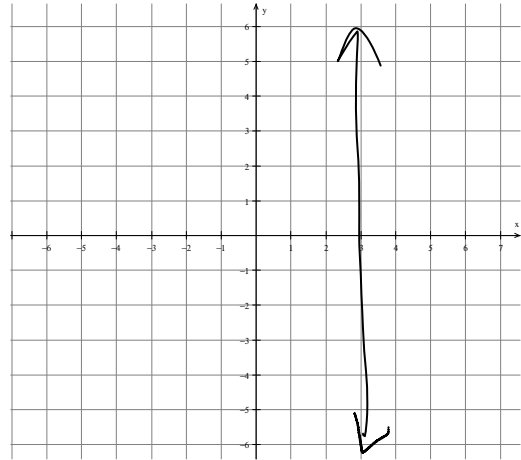   the line.

    $y = -7$

c) The slope is undefined and the
    point (6, -3) is on the line.   *Vertical x = ?*

    $x = 6$

d) $m =$ undefined and the point (-3, 8)
    is on the line.

    $x = -3$