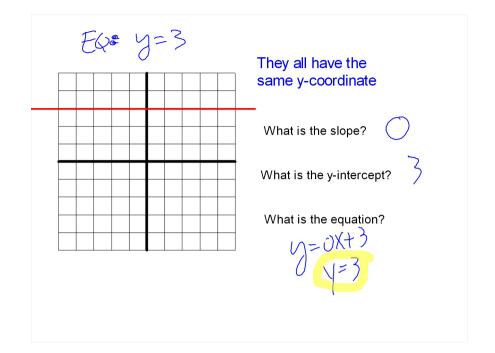
Write the equation of the line that passes through this pair of points. Give your answer in Slope-Intercept Form

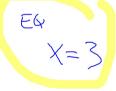
(4,1) and (-7,1) m = 2evo 3evo 3evo

The equation of every horizontal line:

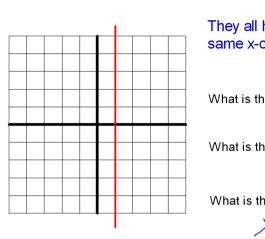


Write the equation of the line that passes through this pair of points.

(3, 5) and (3, -2)



M= 0 = undefined



They all have the same x-coordinate

What is the slope? Undefined

What is the y-intercept?

What is the equation?

X = |

Take a small white board, a dry-erase marker, and a rag

The equation of every vertical line:

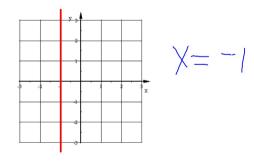
What is the equation of this line?

Passes through (32, -9) and (32, 47)

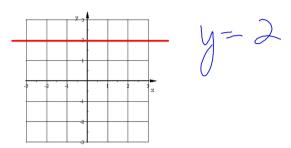
What is the slope of this line?

Passes through (-8, -4) and (11, -4)

What is the equation of this line?



What is the equation of this line?



What is the slope of this line?

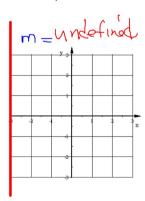
Passes through (3, 6) and (3, 4)

What is the equation of this line?

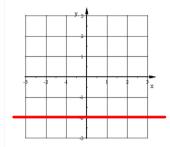
Passes through (2, 9) and (-2, 9)



What is the slope of this line?



What is the slope of this line?



Equations of Lines:

Slope-Intercept Form: y = mx + b

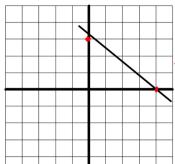
Standard Form: Sec 6-3 Ax + By = C

Point-Slope Form: $y - y_1 = m(x - x_1)$

Horizontal Lines: y = #

Vertical Lines: x = #

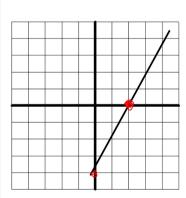
Method 1: rewrite the equation into Slope-Intercept Form



How would you graph the equation:

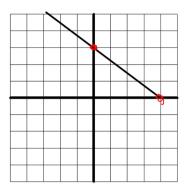
$$4y = 12 - 3x$$

Graph 8x - 4y = 16 by finding the intercepts.



X-INT = 2 y-INT = - 4 How would you graph the equation:

$$3x + 4y = 12$$



Method 2: find the x and y intercepts then connect them.

To find y-intercept:

Replace x with zero and solve for y

To find x-intercept:

Replace y with zero and solve for x



Hwk #10 Sec 6-3

Use the paper I've printed for you.

Pages 301 - 302

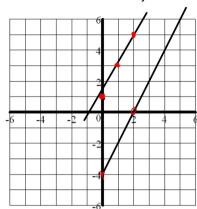
Problems: 5, 6, 15, 16, 18, 21, 22, 25, 26, 36, 58, 61

Due Friday

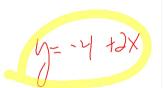
Graph the following two lines on the same graph.

$$y = 2x + 1$$

$$6x - 3y = 12$$



$$\sqrt{-100} = -\sqrt{-100}$$
 $6x - 3y = 12 - 6x$



Lines are Parallel.

Sec 6-5: Parallel and Perpendicular Lines

2 lines are Parallel if they have:

- The same slope, but
- Different y-intecepts