Geometry

3.5 Write and Graph Equations of Lines

# Slope-intercept form of a line

y = mx + b

slope

m = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

y-intercept

b = \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

# Graph in Slope-Intercept Form

y-intercept

* Plot the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

points

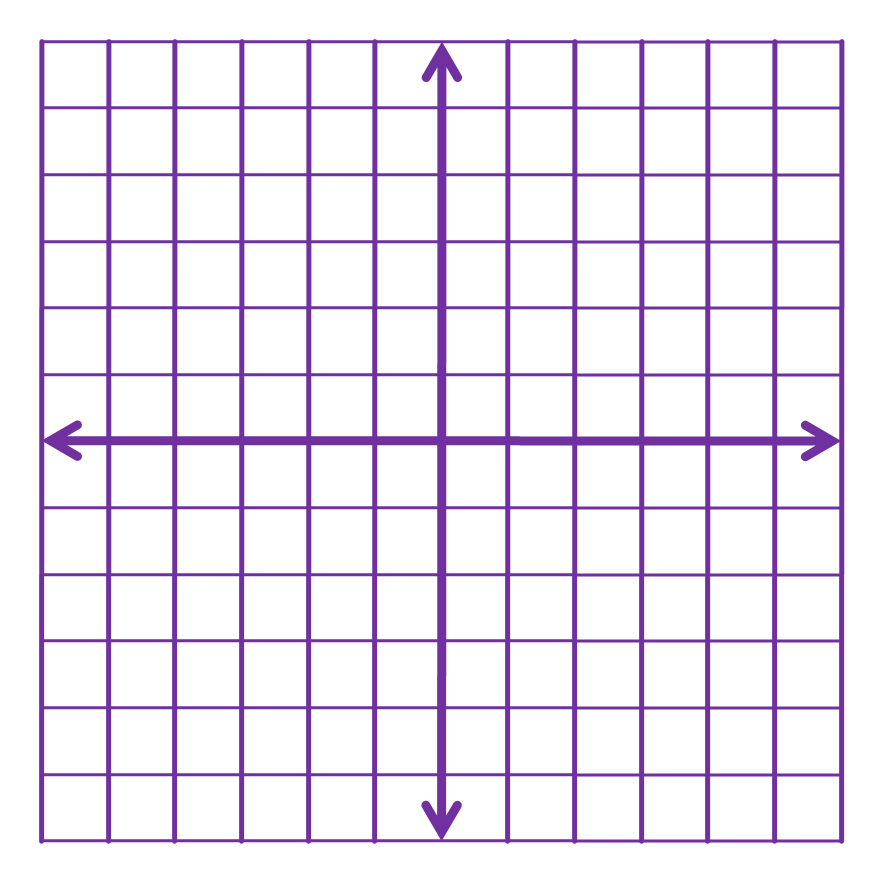
y-intercept

* Move from the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_the slope to find a couple more \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

line

Connect

* \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ the points with a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Graph

y = -2x

y = x – 3

# Write Equations of Lines

Slope-intercept form

To write equations of lines using \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

slope

Find the \_\_\_\_\_\_\_\_\_\_\_\_\_

y-intercept

Find the-\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

It is given or,

b

y = mx + b

point

slope

Plug the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ into \_\_\_\_\_\_\_\_\_\_\_ and solve for \_\_\_\_

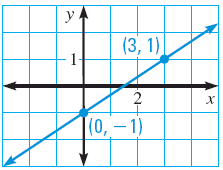
y = mx + b

m

b

equation

Write the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of the line by plugging in \_\_\_\_ and \_\_\_\_ into \_\_\_\_\_\_\_\_\_\_\_



Write an equation of the line in the graph

Write an equation of the line that passes through (-2, 5) and (1, 2)

Write an equation of the line that passes through (1, 5) and is parallel to the line with the equation y = 3x – 5.

# Graph (-5 to 5).jpgStandard form

Ax + By = C

integers

A, B, and C are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

To graph

variable

intercepts

* Find the x- and y-\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ by letting the other \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ = 0

points

* Plot the two \_\_\_\_\_\_\_\_\_\_\_\_\_\_

Two points

* Draw a line through the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Graph 2x + 5y = 10

Assignment: 184 #2-12 even, 16-26 even, 30-36 even, 40, 44, 46, 60, 62, 68-74 even = 25 total