

### **Math Virtual Learning**

# Algebra 1 S1

## **Graphing Two-Variable Inequalities**

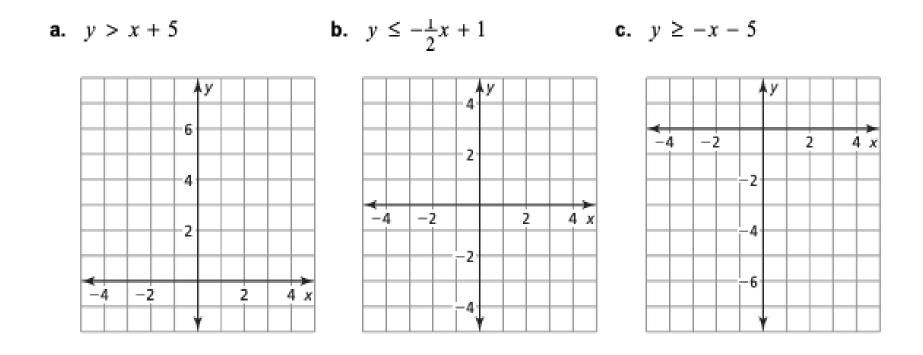
April 16, 2020



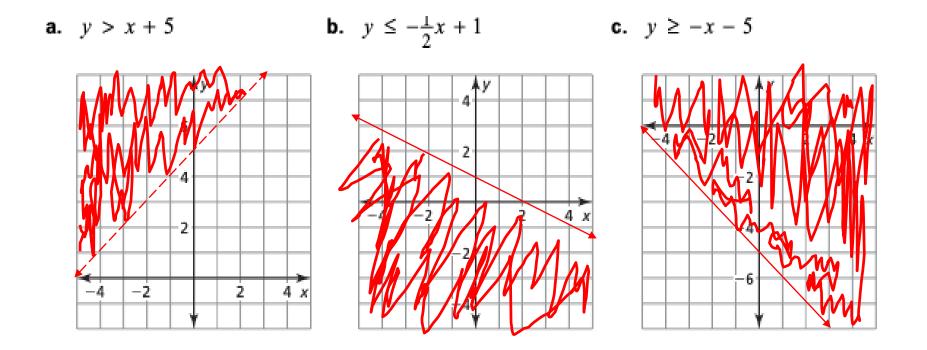
#### Algebra 1 S1 Lesson: April 16, 2020

#### Objective/Learning Target: Students can graph two variable inequalities

**BELL WORK** Graph each inequality in two variables:



BELL WORK → Answer Key Graph each inequality in two variables:



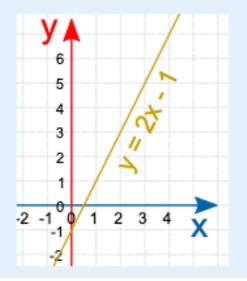
Today we will review graphing inequalities in two variables



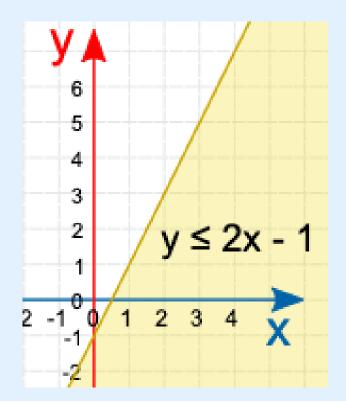
Example: y≤2x-1

 The inequality already has "y" on the left and everything else on the right, so no need to rearrange

Plot y=2x-1 (as a solid line because y≤ includes equal to)



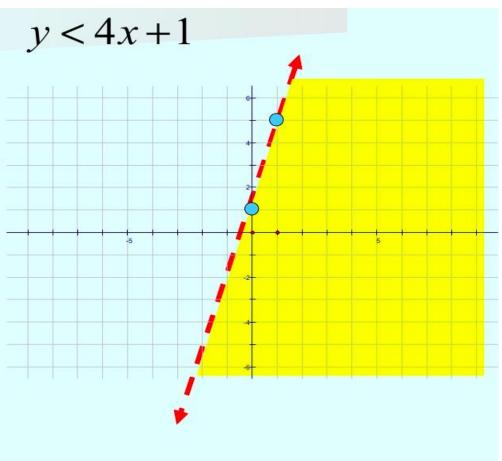
#### Shade the area below (because y is less than or equal to)



Graph the line using the yintercept of (0,1) and the slope of 4.

Example 2

- The inequality does not have an equal to, so it is a dotted line.
- The y is less than, so shade the area below the line



## **Review Problems 1**

Enter your first name. Click "Skip for now." Click start game.

## **Review Problems 2**

### Exit Pass

## Graph the inequality: 2y>4x–6

