

Bell Work:

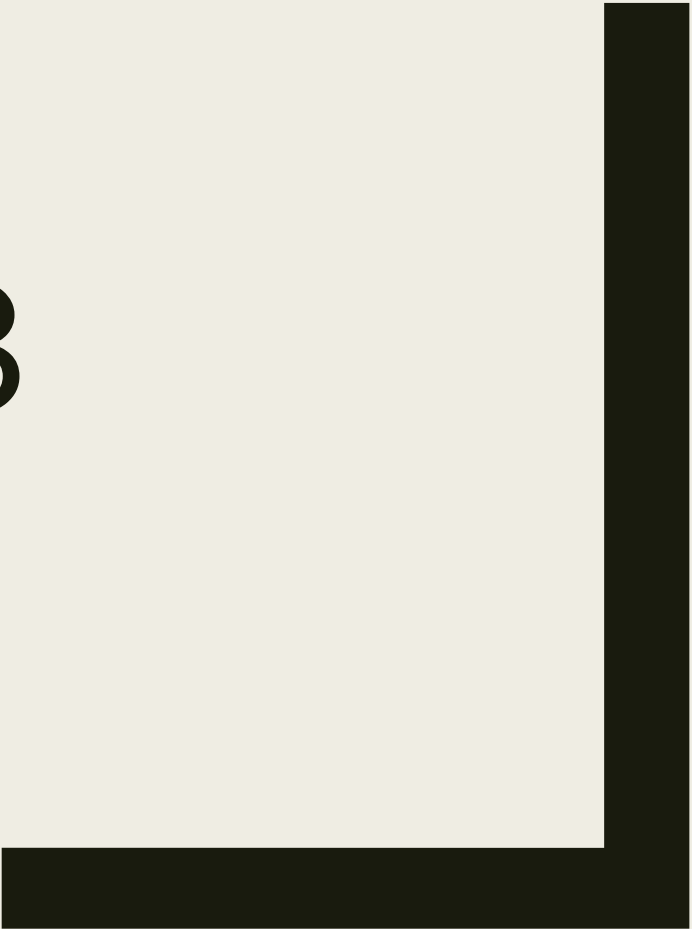
What do we need to look at before the Quiz

Go Over Homework (Grab a Book)



# ALGEBRA 3

Day 20



# From last time...

New Material

Page 110 #9, 11, 15, 25, 29, 34

Mixed Review

Page 113 #61, 63, 64

# Chapter 2 Section 8

## Two Variable Inequalities

**Objective:** To solve and graph inequalities with two variables

**HLQ:** Why do we shade an inequality graph, but not a “normal” graph?

# Remember...

- **Linear Inequality:** a linear equation, in two variables, written using inequality symbols ( $<$ ,  $>$ ,  $\geq$ ,  $\leq$ ) in place of  $=$
- Boundary-line that separates group into two half-planes, one half plane is the solution of the inequality

# Graphing a Linear Inequality

Graph the line of the inequality.

**Dashed line** for  $<$  or  $>$

**Solid line** for  $\leq$  or  $\geq$

Test a point NOT on the line to see whether it is a solution of the inequality.

If point works: Shade region with point

If point does not work: Shade region without point

# Examples

1.)  $y < 0.5x - 3$

2.)  $2x - 5y \geq 10$

# For Next Time...

New Material

Page 118 #1, 2, 11, 13, 15, 31, 41

Mixed Review

Page 120 #58, 61, 70