12/11 Algebra I - Downing

Go over HW

5.7 Systems of Linear Inequalities

- System of Linear Inequalities - A set of two or more linear inequalities
- The solution(s) to the system - the points that make <u>both</u> inequalities true.
- These points will lie in the double-shaded region.

Ex) Is the ordered pair a solution?

$(0, 2)$ $\begin{cases} y > 2x - 3 \longrightarrow 2 > 2(0) - 3 \rightarrow 2 > -3 \text{ yes} \\ y \geq \frac{1}{3}x + 2 \longrightarrow 2 \geq \frac{1}{3}(0) + 2 \rightarrow 2 \geq 2 \text{ yes} \end{cases}$

* plug in the x + y. They <u>both</u> need to be true to be a solution. (double shaded region)

Notes on worksheet → includes HW

Done in class: #1 + 10

HW - 2, 4, 9, 11-14