Unit 4: Chapter 7

SYSTEMS OF INEQUALITIES

Cornell Notes/Summary Sheet

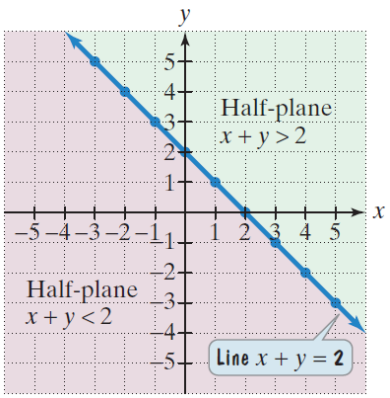
Name: _____

Period: _____

Lesson 7.1 – Big Ideas

- Linear inequality in two variables
- Boundary lines
- Graphing a linear inequality
- Test point
- Half-plane

Your Notes



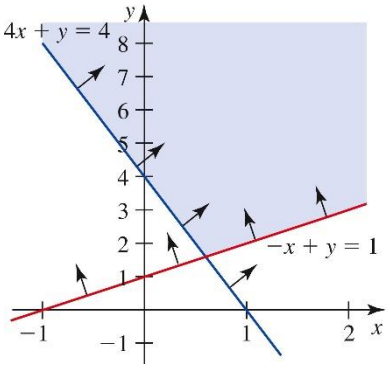
Lesson 7.2 – Big Ideas

- Writing and graphing systems of linear inequalities
- Constraints
- Finding the solution to a system of linear inequalities

Your Notes

EXAMPLE:

$4x + y \geq 4$ & $-x + y \geq 1$



Lesson 7.3 – Big Ideas

- Writing and graphing systems of linear inequalities
- Finding the solution to a system of linear inequalities
- When are intersection points solutions to the system of linear inequalities?

Your Notes

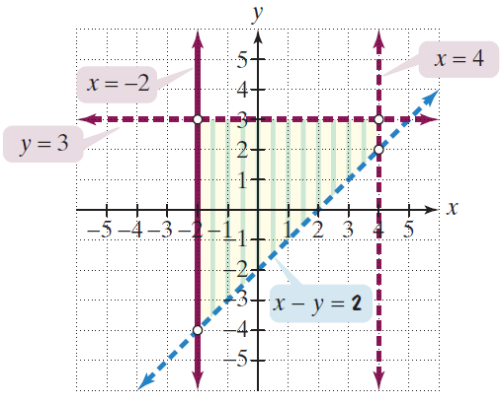
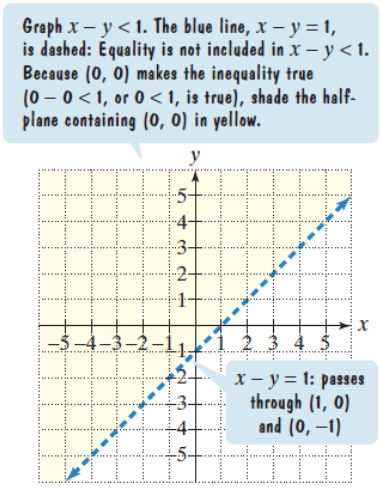
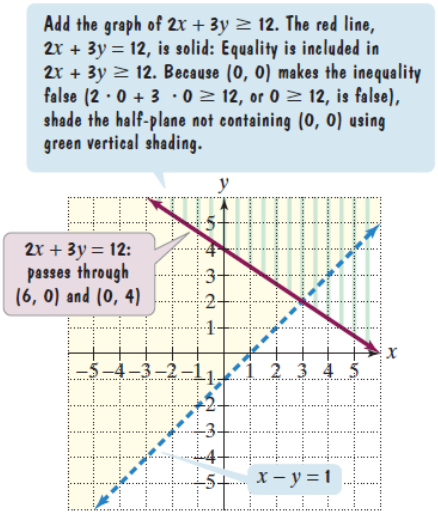


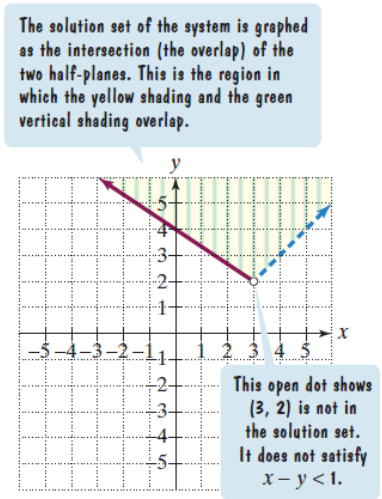
FIGURE 7.28 The graph of $x - y < 2$ and $-2 \leq x < 4$ and $y < 3$



The graph of $x - y < 1$



Adding the graph of $2x + 3y \geq 12$



The graph of $x - y < 1$ and $2x + 3y \geq 12$