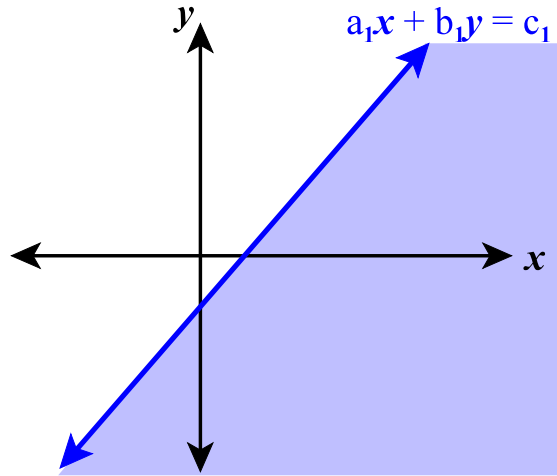


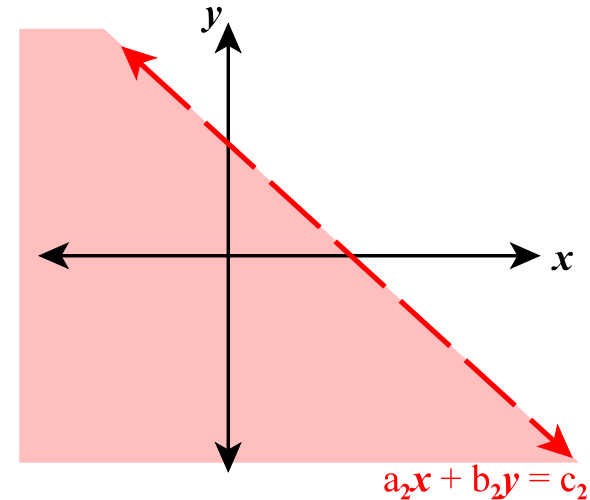
VI. System of Linear Inequalities (p.292):

$$a_1x + b_1y \leq c_1$$



and

$$a_2x + b_2y > c_2$$

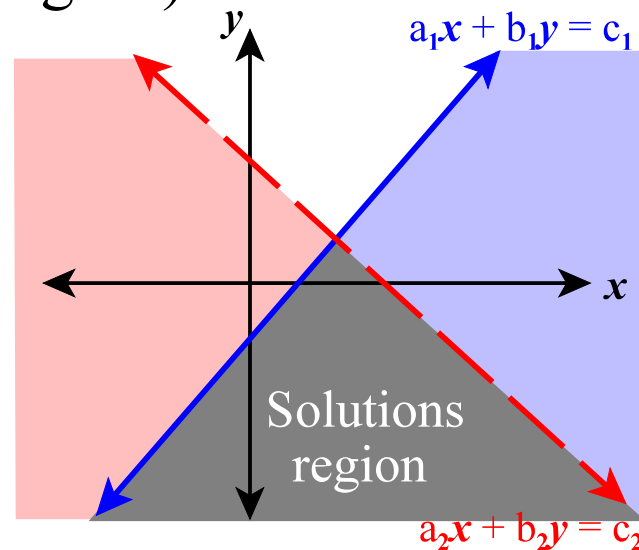


The solution region to the system of linear inequalities is the intersection (overlapping region) between the two solutions...

$$a_1x + b_1y \leq c_1$$

and

$$a_2x + b_2y > c_2$$



VII. Examples (p.294): Exercises #30,44

HW: p.294 / Exercises #23,25,29,37,43

Exam II: Chapters 3 & 4 covered (sections 3.4, 3.5 & 4.5 omitted)

approx. 10-12 problems...

Solve a system of 2 linear equations in 2 variables...

graphing, substitution and/or elimination

...inconsistent case = **no solution**

...dependent case = infinitely many solutions

of the form $\sim (x, mx+b)$ where “**x**” is any real #

Solve a system of 3 linear equations in 3 variables...

Solve applications (*i.e.*, word problems, by any method)...

geometry, break-even, simple interest, uniform motion

Solve linear & absolute value inequalities, absolute

value equations, system of linear inequalities

Calculator, pencil, eraser, straight-edge needed!