

Ma 096 ~ Systems of Equations PreTest Study Guide

For this test, you will have to demonstrate proficiency in the following skills:

- Solving a system of equations like

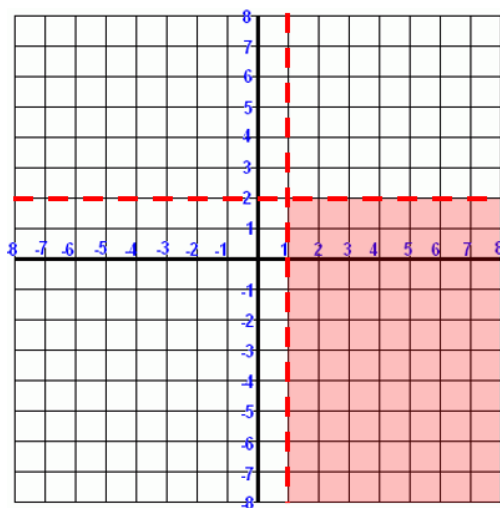
$$2x + 3y = 13$$

$$6x - 9y = 21$$

Common methods are substitution, elimination, and even graphing. There are no rules about which method you have to use.

- Some systems of equations have *no* solution or *infinitely many* solutions. Be able to recognize and identify these systems.
- Given the sum of and difference between two numbers, identify the numbers. Can be solved with a system of equations.
- Given a graph with two inequalities, identify the shaded region. *Review from module 093.*

Example:



Answer:

$$x > 1$$

$$y < 2$$

- The system of equations could have up to three variables like

$$x + y + z = 6$$

$$x = 2y$$

$$z = 3y$$

Be ready for that! (I would solve that one by substitution.)

- Applying any of the above to a real-world situation.