

Systems of Equations and Inequalities
Mrs. Leigh Harris – Algebra I
Spring, 08

Your goal for this activity is to organize the information on **Systems of Equations of Inequalities** in a logical manner. Once you have organized the material, it will be easier for you to remember and study. You can work together with ONE partner (both get the same grade), or you may work alone. Regardless, you may show your classmates something new about the software if it will help them.

On your Inspiration chart (or outline), include the following items:

- A title
- Your Name(s)
- Definition of a *system of linear equations* (or a *linear system*)
 - How to determine the *solution of a linear system*.
- **The steps to solving a Linear System by *graphing*** (7.1). Include specific circumstances for when this method is useful (7.4).
- **The steps to solving a Linear System by *substitution*** (7.2). Include specific circumstances for when this method is useful (7.4).
- **The steps to solving a Linear System by *combination*** (7.3 - also known as ***elimination***). Include specific circumstances for when this method is useful (7.4).
- The *possible number of solutions* a system can have (7.5) and what makes these solutions happen.
- Definition of a *system of linear inequalities* (or a *system of inequalities*).
 - How to determine the *solution of a system of inequalities*.
- In your own words, tell the steps to graphing a *system of inequalities*.

EXTRA CREDIT: If you add **appropriate** clip-art, clips from websites, or video clips and are able to present your project to the class you will get bonus points.

Make your chart colorful and creative but most importantly organized correctly. The goal of this activity is to organize the information in a logical manner. Have fun with adding mathematically appropriate pictures from clip-art, etc.

*****For printing purposes, so that your chart *might* be able to be printed in color, please make your background color white.

When you finish, you will NOT print this today. However, you need to save it as follows:

Go to **my computer**, "**S**" (**student**) **drive**, and find **L. Harris's** folder.

Open the folder and **go to (your class) period** – open that folder.

Save your creation by using *your name* and "ch7" or something about "systems of equations and inequalities" in some combination. Let Mrs. Harris know when you've finished and show her your product on screen.