



4th Quarter
Honors Algebra Project



Using Technology in Algebra

This final project of the year will offer several options from which you can choose. The choices below are all topics that we have covered in class - but they stretch your knowledge to include more use of technology.

Although you may work individually - you may also work with a partner as indicated below. This project will count similar to a 100 point test, so it is important that you do your very best work to ensure a good grade on the project.

All projects will be available online.....and you need to review them there in order to make your choice.

The website is: <http://schools.rps205.com/guilford/Godtland/ClassINFO/Algebra12.htm>

*You can also go to the Godtland class website, then click on "Class Information" and "Honors Algebra 1-2"
You will find the list of projects we did this year right below the menus on the left side.*

You (and your partner) must sign up for one of the projects in class. In addition to completing the parts of the project - you will need to write a one page report describing what your project was about and how you went about it. If working with a partner you need to give a detailed list of what each person did to contribute. Your conclusion should explain the algebra that you were able to learn in doing your project.

-
1. **Cost of Pizza - Linear Systems.** This project will also include a review of solving systems of equations and will include other applications such as "rock concert ticket prices" and "golf club fees", "profit of a CD company", and more. You will need access to a graphing calculator to complete this project.
 2. **Choosing a Cell Phone.** In this project you will be using an Excel spreadsheet to determine the best buy from a choice of 3 companies. You will need access to a computer that has Microsoft's Excel available. This can be done in the library or the classroom if you do not have it available at home.
 3. **Line of Best Fit/Equation.** Linear graphing project in which you analyze fast-food sandwich items for fat vs. calories. The 2nd portion of this will be a quadratic activity to find the equation of your "parabolic dental arcade". It will involve both paper and pencil methods as well as graphing calculator technology.
 4. **Performance/Video Production.** This project requires that you and your partners (you can have up to 4 people work together on this) learn to perform a musical version of the Quadratic Formula Song. Samples are given online with both performances and musical sheet paper/lyrics or you can make up your own. It can be any style of music and it can be a live performance in class, but it is preferred that groups will make a video of their group and save it as a CD/DVD so that it can be played in class for all to view. (No paper will be required for this if you submit your performance on a CD/DVD.)