Function Book Rubric

CATEGORY	6	5	4	3
Neatness and Attractiveness	Exceptionally neat, and attractive. Writing is clear and easy to read.	Generally neat, and attractive. Writing is clear and easy to read.	Some of the work is neat, and attractive. Writing is readable.	Appears messy and thrown together in a hurry.
Completeness	2 graphs on each coordinate plain, all tables filled in, all questions answered	2 graphs on each coordinate plain, all but a few of the questions and/or tables are filled in	2 graphs on each coordinate plain, and no more than 8 of the tables and questions are blank	There are not 2 graphs on each coordinate plain and/or more than 8 of the tables and questions are blank
Original or parent function graphs	At least 5 points are plotted correctly for each function and are easy to see. Points are connected by a smooth line of the same color. Table is same color as line. Arrows on ends accurately	4-5 points are plotted correctly for each most functions and are easy to see. Points are connected by a line of the same color	2-3 points are plotted correctly for most functions and are easy to see. or points are connected by a line of inconsistent color	More than half the graphs do not have at least 3 points plotted correctly and easy to see. Points are not connected by a line in all cases.
Transformation graphs	5 points are plotted correctly for each function and are easy to see. Points are connected by a smooth line of the same color, but different than parent functions. Table is same color as the line Arrows on end accurately	4-5 points are plotted correctly for each most functions and are easy to see. Points are connected by a line of the same color, but different than parent functions	2-3 points are plotted correctly for most functions and are easy to see. or points are connected by a line of inconsistent color	More than half the graphs do not have at least 3 points plotted correctly and easy to see. Points are not connected by a line in all cases.
Domain and Range	26 or more domain and range questions answered correctly. Wrong $\leq$ 2	22 - 25 domain and range questions answered correctly. 3 $\leq$ wrong $\leq$ 6	18 - 21 domain and range questions answered correctly 7 $\leq$ wrong $\leq$ 10	less than 18 domain and range questions answered correctly wrong > 10
Transformations questions	7-8 transformation questions correct	6 transformation questions correct	5 transformation question correct	4 or less transformation questions correct
Front Cover	Typed name and, title. A graphic having to do with functions, not hand drawn. Creative, colorful and/or very attractive	Typed name and title. A graphic having to do with functions, not hand drawn. attractive	Name, title and graphic having to do with functions. attractive	Does not have Name, title and a graphic and/or is not neat in appearance.
Inside back cover	Additional information on 6 or more of the parent functions. Information is accurate, not already discussed in the book and presented neatly	Additional information on 4-5 of the parent functions. Information is accurate, not already discussed in the book and presented neatly	Additional information on 3-4 of the parent functions. Information is accurate, not already discussed in the book and presented neatly	additional information on 2 or less of the parent functions or information given is not accurate
Self assessment	Student completes a self assessment of the project using the rubric. Self assessment is very accurate and shows thought given to each area. Turned in with project.	Student completes a self assessment of the project using the rubric. Self assessment is mostly accurate. Turned in with project	Student completes a self assessment of the project using the rubric. Self assessment is generally accurate. Turned in with project.	Student completes a self assessment of the project using the rubric. Self assessment is not generally accurate or not turned in with project.
Total Points	_____	Subtract 3 points for each day after 10-21 _____		

This project is due Monday 10-21-13. If you do not have class that day due to the Plan or Mock ACT testing, it will still be your responsibility to turn it in before the end of the day.
When you look at the rubric, you will note that if someone gets the highest rating in all of the areas, they could score 54 points. This project grade along with the other two project grades will be worth a little bit more than a test grade.

The work in this project is detail oriented. To be successful, I suggest the following.

1. do not wait until the last minute. Plan on spending at least 2 hours working on this.
2. you will need a straight edge or a ruler, 2 different color pens or a pencil and a pen. And some blank paper. I suggest that you get a decent pen that will not leave blotchy ink spots on your paper where did not want it.
3. A graphing calculator will be very helpful. If you do not have one, there are many websites that simulate them and I have a emulator that I can transfer onto a flash drive for you to use at home if you want. White out would also be nice to have access to, but is not necessary if you are careful and accurate.
4. Answer the questions for each function on blank paper first. If you do this you can concentrate on being accurate. Read the directions carefully. You will see that in most instances you need to fill out a table for a function, graph it and answer questions about its domain and range in one color ink. Then you will either be given or will have to come up with a new function based on transformation instructions you are given and need to write those things in a different color ink. Use the different color ink on your rough draft also.
5. Validate your answers before making the final copy with other students and/or internet resources before asking me for help.
6. Feel free to help another student, however do not just give them your book to copy. If I see this happening or has happened both students involved will receive a failing grade. Would a good friend really ask you to do something that would put you in that much risk?

7. When transferring your work onto the final copy, do your best to write clearly and neatly. Take your time. You can fix a mistake with white out. I would suggest you do all the writing with the one pen, then do all The writing with the other pen on each page.
8. Read the rubric often while working on the project.

You will lastly take a 8X11 piece of paper, colored or white, and create a cover. On the front of the cover is to be your name and title for your booklet typed. You can do this different ways. i.e. type it on a word processing Program directly on your cover, or print it and cut it out. There should be an appropriate graphic of some sort and it should not be hand drawn for full points.

On the inside of the back cover neatly present information concerning at least 6 of the functions in the book that is not already specifically addressed in the book.

When you are done you will have created a booklet. Attach the cover and staple it. I will supply you with 2 (front and back) pages only. The pages should be in the following order. Blanks will be posted on the class website if you need more copies.

Linear functions
Quadratic functions
Absolute value functions
Radical functions
Exponential functions
Cubic functions
Logarithmic functions
Rational functions