

Pre Calculus 12 Graphing Assignment - Final Exam Section

Your assignment is to design an image using Desmos that demonstrates your understanding of functions and function transformations. The image is to be *inspired* by our school's mascot, the Raven. I am not looking for replications of our school logo, but rather, an image *inspired* by stories of the raven and other images of ravens from nature or artists. There is a collection of books in the library that can be used for inspiration. They are set aside for our class. Just ask the librarians! This assignment is worth 10% of your final mark, which is half of the final exam.

Your final project should include the following:

- 1) A **color** printed copy of your image, including the equations. (I can help with printing if need be.)
- 2) A small paragraph, typed, describing your sources of inspiration for the image.
- 3) A typed paragraph (minimum 250 words) describing what it has meant to you to be a Roya Bay Raven. This is meant to be a self-reflection of your time at this school. This paragraph can be replaced with a poem or some other form of writing if you prefer, but please check with me first. Included in this paragraph should be a reflection of your experience with math - not this math class specifically, but your experiences with math in general, and where do you see yourself using it in the future!
- 4) You must include (but are not limited to) the following functions and relations:
 - a) Polynomial
 - b) Rational
 - c) Radical
 - d) Exponential
 - e) Logarithmic
 - f) Inverse
 - g) Sinusoidal
- 5) You need to choose three functions from your list of equations and describe the transformation of the function using the language and process that we learned during a various studies of function transformations.
- 6) All of the above needs to be neatly mounted on a black poster board. (I will provide these). Presentation matters! You have spent many hours working on this project. Be sure to present it in a way that honors your hard work. You want to draw in your audience.

We will develop a marking scheme and rubric together in class. Creativity, complexity and proper writing will all be part of your assessment. Your posters will be on display during the final week of classes. Please do NOT put your name on the front of your project. I will assign you a number for grading purposes. This project is due ___. Projects will be peer reviewed and marked by me. Due to the tight timeline of semester turn around and report card deadlines, late submissions will NOT be accepted. You must treat this project like a FINAL EXAM. Although I am usually flexible with deadlines, I must be firm with this one. Happy Graphing!

Name: _____ Block: _____ Project # _____

Evaluation

Complex(X2)	1	2	3	4	5	6	7	8	9	10
Presentation	1	2	3	4	5	6	7	8	9	10
Paragraph	1	2	3	4	5	6	7	8	9	10
Functions	1	2	3	4	5	6	7	8	9	10

Self Eval _____ **+ Teacher Eval** _____

Comments (ie What did you enjoy about this project? What challenges did it present? How did you overcome those challenges? What surprised you about this project? What does this project communicate about you?)

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