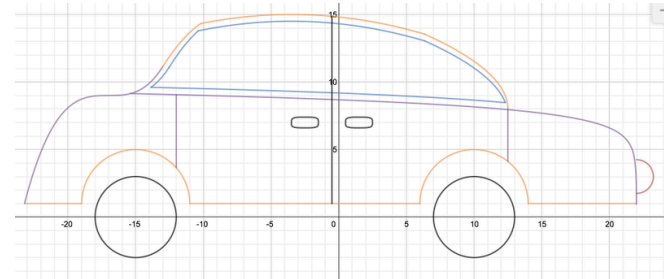
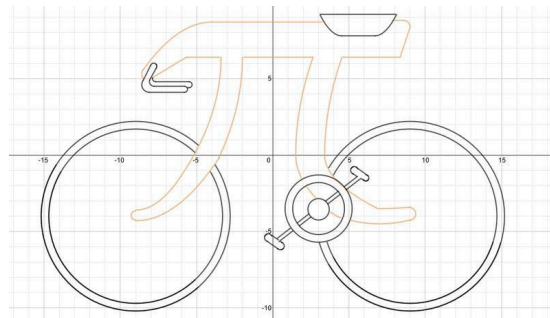
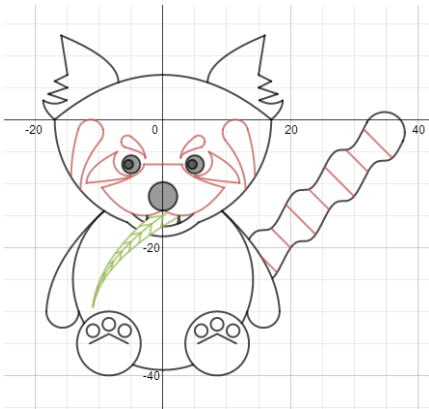


Function Transformations - Engaging Resources

RF SO2-4: Functions in Art Project

This project allows students to use their knowledge of various functions, transformations and domain & range to create artistic graphs using the [Desmos](#) online graphing calculator.



Project Resources from Dan

- [Functions in Art Project.docx](#)
- [Functions in Art Checklist.docx](#)
- [Functions in Art Rubric.docx](#)

Project Resources from Sandy

- [Graphing Project.docx](#)

Some of Sandy's Thoughts on the Project

"I have offered this assignment 3 times now, and each time the students are so engaged by it (always surprised me how many hours they spend on making their pictures)

Also, we have noticed that creating individual accounts allow more flexibility for students to go back in a change the graphs without actually re-entering functions. I will probably change this next time I offer it.

Posting the final pictures on Edmodo was also really fun, because students were able to see the works of other students.

Finally (bragging here on behalf of my students...) each time this has been done, a student (or two) have had their graphs selected to go on the Desmos hall of fame, which was such an amazing treat to be able to celebrate in class."

RF SO2-4: Function Transformations Handouts - Sam Shah

(Link: [Function Transformations](#))

I just wanted a quick post to share the documents I created to teach function transformations. All documents are in .doc format. They aren't flashy, but they really got students thinking about everything. (This is a regular Algebra II class.) They nailed the final assessment, and are now doing amazingly on transformations of exponential functions. In other words, I see my work as a success.

Function Transformations 1 **BASIC INTRODUCTION** ([here](#)): HW ([here](#))
Function Transformations 2 **UP! DOWN! LEFT! RIGHT!** ([here](#)): HW1 ([here](#)) , HW2 ([here & here](#))
Function Transformations 3 **VERTICAL STRETCHING** ([here](#)): HW ([here](#))/ Solutions ([here](#))
Function Transformations 3.5 **PRACTICING THINGS STEP BY STEP** ([here](#))
Function Transformations 4 **HORIZONTAL STRETCHING** ([here](#)): HW ([here](#)) / Solution ([here](#))

Also I handed this practice sheet out to all students to practice their 8 base functions ([here](#)).

Just so you know, I don't always teach via handouts. But with all this graphing, I decided it made good sense.

I'm happy if you want to critique them, or make suggestions on how to improve them.

An excerpt from Sam Shah's site, describing the resources he is sharing, is below. This series of handouts allow students to practice the processes of Reasoning and Connections.