**GRAPHING PROJECT**

**You have been asked by Desmos Graphing to create a picture using a combination of at least 6 the following functions. This needs to be completed no later than February 12, 2014, because they would like to post them on their website as advertisement of the ease and flexibility of their graphing product.**

**The six functions are detailed below, (other functions may be used in addition to a combination of the six required)**

**Radical**

**Rational**

**Absolute value**

**Quadratic**

**Cubic**

**Polynomial**

**Please list, on a separate sheet of paper details of the transformations on 5 of your functions. You may pick any of the functions used, identify the parent function, and any/all transformations that were applied.**

**Create your picture here:**

Into <https://class.desmos.com>

 Enter class code: 8fh6

Use **YOUR** name so that you may receive a mark

*It is ok if you have more than one graph, posting some test graphs might be necessary. Identify your final product with :* ***your name, FINAL****)*

Alternatively, create your own account with Desmos, and screen shot your final graph, post it on Edmodo.

**Suggestions:**

Domain and Range restrictions will be necessary, use { } brackets to enter these on the site

You can adjust the colour of functions drawn by following directions on the site.

Have a look at some of the already posted pictures, see if you recognize any of your peers…

**GRAPHING ASSIGNMENT RUBRIC /15**

|  |  |  |  |
| --- | --- | --- | --- |
| **RUBRIC** | **5** | **3** | **1** |
| **Creativity** | **Graph includes a creative approach to analysis.** | **Some creativity but lacks cohesion and lacked variety of functions.** | **Lacks creativity and does not use minimum required functions.** |
| **Accuracy** | **Accurate representation of the function transformations, including correct restrictions on domain and range.** | **Represents correct process but has some errors in transformation summary.**  | **Understanding of transformations not demonstrated in summary.**  |
| **Problem Solving** | **Able to solve problems that arouse with regards to assignment with minimal assistance.****Was able to produce a very complex picture** | **Needed help with organizing, using the site and managing information. Was able to produce an****interesting picture.** | **Required guidance with selecting functions, transforming and using the site. Was able to produce a simple picture.** |