AFTER: Graphing Absolute Value Functions **Name: _____ date: _____**

R.A.F.T. (Role, Audience, Form of, Topic) **IBMYP Criteria C: level reached _____ (you)**

_____ (me)

Due: On or before September 18 (A) & September 19 (B)

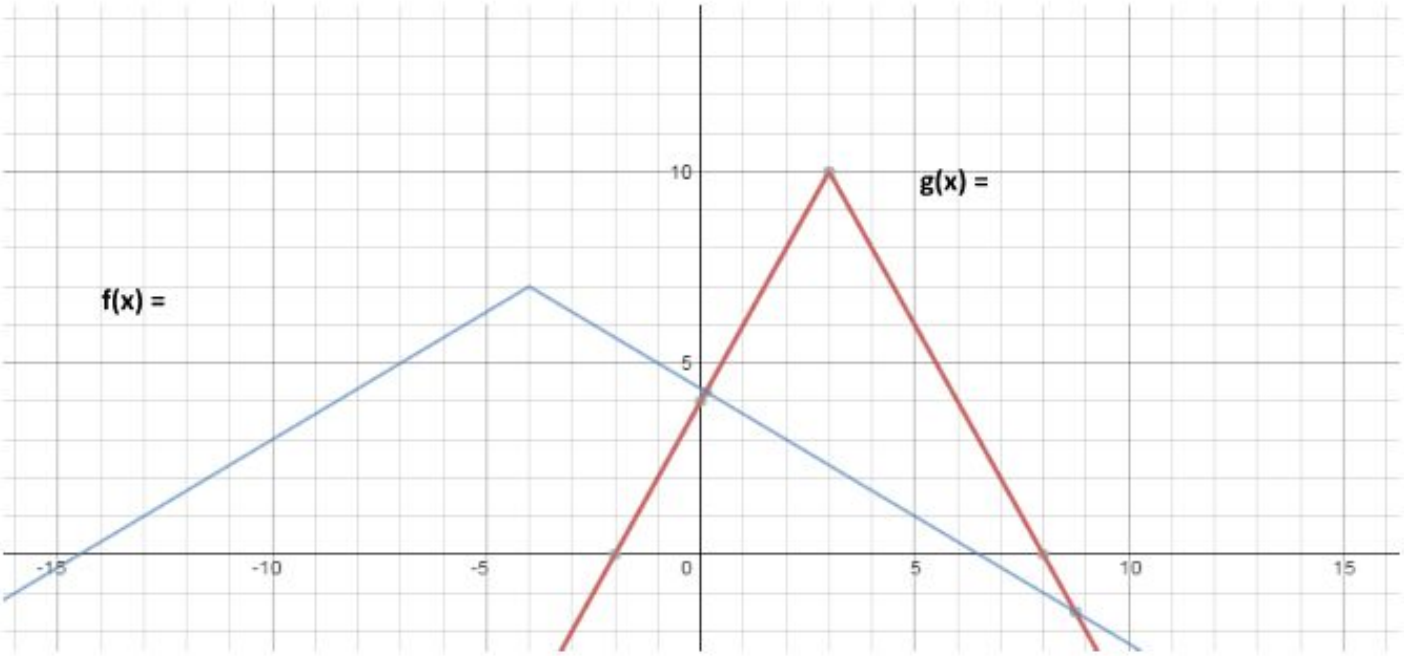
Read IBMYP Rubric C – Communication BEFORE you start the task. After you have completed the task, evaluate yourself using Rubric C. Using rubric C, provide yourself specific feedback from the rubric, and evidence in your work that supports your score.

Your Task:

- **You are a <u>coder</u> working for Pixar on their new film.**
- **You have been asked by the <u>animation</u> <u>department</u> to write the "code" for two of the mountains in the next Ice Age film.**
- **<u>Write an email (use neat handwriting or type) describing the equations</u> of the functions that must be used to represent the mountains below. Be sure to include the actual "code"/equations on the diagram below, as well as your reasoning behind them.**
- **Extension: Create an additional feature to the scene below and include its equation and description in your email.**

<u>Content Specific</u>: *Your R.A.F.T. should include all concepts and vocabulary that are appropriate for the specific task. Please label them on the graph and describe them in the written piece.*

Examples: Parent Function, Relation, Vertex, Reflection, Stretch, Compression & Translation, Minimum, Maximum (THINK!)



How did you do? …

1. Use IBMYP Rubric C- Communication to evaluate your level.

   What score would you give yourself? _____

2. What specific parts/level of the criteria did you do well?

3. What specific parts/level of the criteria did you struggle to meet?

4. What advice/guidance would you give yourself to improve your mathematical communication skills?

IBMYP Criterion C- Communicating Pixar R.A.F.T.

i. **use** appropriate mathematical language (notation, symbols and terminology) in both oral and written explanations
ii. **use** appropriate forms of mathematical representation to present information
iii. move between different forms of mathematical representation
iiii. **communicate** complete, coherent and concise mathematical lines of reasoning
iv. **organize** information using a logical structure

Achievement level	Descriptor: Task Specific
0	The student does not reach a standard described by any of the descriptors given below
1 – 2	The student is able to: i. **use** limited mathematical language ii. **use** limited forms of mathematical representation to present information iii. **communicate** through lines of reasoning that are difficult to interpret
3 – 4	The student is able to: i. **use** some appropriate mathematical language ii. **use** appropriate forms of mathematical representation to present information adequately iiii. **communicate** through lines of reasoning that are complete iv. adequately **organize information** using a logical structure
5 – 6	The student is able to: i. usually **use** appropriate mathematical language ii. usually **use** appropriate forms of mathematical representation to consistently present information correctly iii. **usually** move effectively between different forms of mathematical representation iv **communicate** through lines of reasoning that are complete and coherent v. **present** work that is usually **organized** using a logical structure
7 – 8	The student is able to: i. consistently **use** appropriate mathematical language ii. **use** appropriate forms of mathematical representation to consistently present information correctly iii. iv. **communicate** through lines of reasoning that are complete, coherent and concise v. **present** work that is consistently **organized** using a logical structure

Content Specific: ***Your R.A.F.T. should include all concepts that are appropriate for the specific task***
Please label them on the graph and describe them in the written piece.

Parent Function or Relation
Vertex, Reflection, Stretch, Compression & Translation
Minimum, Maximum (THINK!)