Unit 2: DOMAIN Assessment

Name _____ PER _____ DATE _____

2A	2B	2D	2F

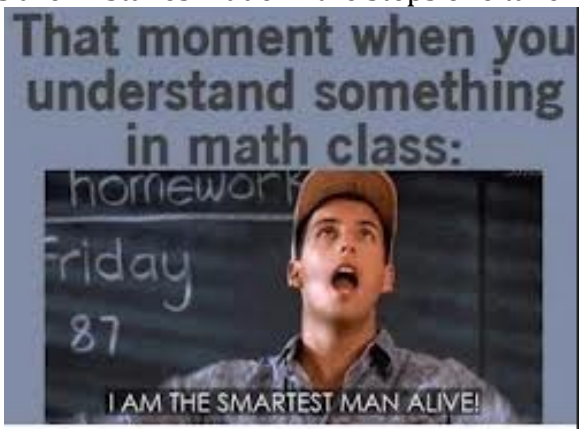
Computation

4	3	2	1
Response has no recall errors, *minimal* procedural errors* and no conceptual errors**	**Response has no recall errors, minimal procedural errors and *minimal* conceptual errors**	**Response has no recall errors, but has several procedural errors OR several conceptual errors**	**Recall errors exist OR Steps taken are not related to problem OR Response left blank**

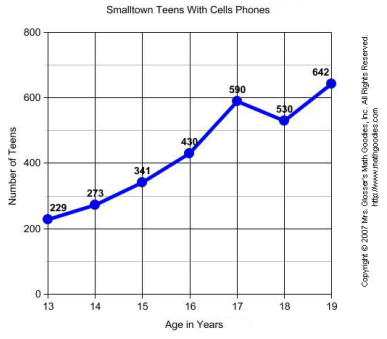
Written Responses

4	3	2	1
Response is written in a complete sentence and uses appropriate academic vocab	**Response is written in a complete sentence, and minimal errors exist in use of academic vocab**	**Response is not written in a complete sentence OR no academic vocab**	**Concept of response is not related to problem OR Response is left blank**

***Procedural errors** are mistakes made in the math
****Conceptual errors** are mistakes made in the steps one take



BOX YOUR ANSWERS!!!

SCORES	LT 2A
Your predicted score: **Mr. Solis' score:**	1. Indicate whether each relation is a function. Explain why or why not. a. (3, 6) (6, 3) (-3, -3) (0, 3) b. $y^3 + x^2 = 10$ c. 

SCORES	LT 2B
Your predicted average score: **Mr. Solis' score:**	2. Find the domain of the following functions: a.) $f(x)=\frac{x^3}{\sqrt{3x-3}}$ b.) $f(x)=\frac{\sqrt{x}}{2x^2+5x-3}$ c.) $f(x)=\frac{3x}{\sqrt{4-x^2}}$
Your predicted average score: **Mr. Solis' score:**	3. Write a function whose domain is R and explain why that is so. _____ _____ _____

SCORES	LT 2D
Your predicted score: **Mr. Solis' score:**	4. Find $f \circ g \circ h$ if $f(x) = \frac{2-x}{x}$ $g(x) = 2x$ and $h(x) = x^2$ 4. Using the same functions as above, find $f \circ f$. 5. If $F(x) = \sqrt{\frac{2x^2}{7x-3}}$ find *f(x), g(x),* and *h(x)* such that *F(x) =* $f \circ g \circ h$. Show all of your work!

SCORES	LT 2F
Your predicted score: **Mr. Solis' score:**	

$$f(x)=\begin{cases}\frac{1}{x} & for \quad x>3\\ -2x & for \quad 0\le x\le 3\\ x^3-3 & for \quad -2\le x<0\\ |x| & for \quad x<-2\end{cases}$$

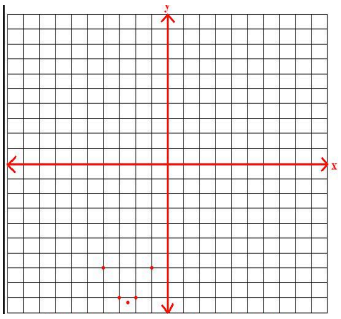
6. Evaluate the functions above at the given values.

a) f(1) b.) f(-5) c.) f(-1)

7. Graph each of the following functions by listing the transformations *in order* then transform the parent graph and show the final sketch on the coordinate plane.

$f(x) = -x^2 - 2$

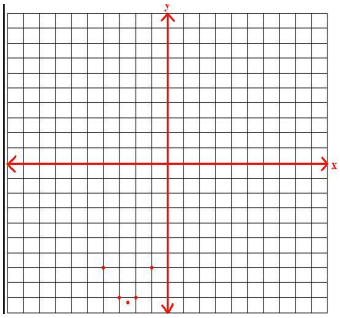
Parent function: _____
Transformations in ORDER:



8. Graph each of the following functions by listing the transformations *in order* then transform the parent graph and show the final sketch on the coordinate plane.

$f(x) = | x - 2 | + 4$

Parent function: _____
Transformations in ORDER:



9. Write a function for the descriptions of the transformations below:

a.) Square Root: horizontal shift 2 units to the right.

_____

b.) Cubic: horizontal shift 3 units to the left and 1 unit down.

_____