

Exploration 7-3c: Equations from Given Values Practice

Date: _____

Objective: Given a set of regularly spaced x - and y -values, find a particular equation and use it to find other values.

For each set of points, state what pattern the points follow and what kind of function has that pattern. Substitute given points into the general equation to calculate the constants, and give the particular equation. Then calculate the indicated function value.

1.	x	$f(x)$	Find $f(13.7)$.
	2	2940.0	
	4	1440.6	
	6	705.894	
	8	345.88806	
	10	169.4851494	

2.	x	$g(x)$	Find $g(22.3)$.
	2	5.6	
	4	44.8	
	6	151.2	
	8	358.4	
	10	700.0	

3.	x	$h(x)$	Find $h(100)$.
	2	87.5	
	4	122.1	
	6	156.7	
	8	191.3	
	10	225.9	

4.	x	$q(x)$	Find $q(-7.9)$.
	2	9.2	
	4	12.6	
	6	19.2	
	8	29.0	
	10	42.0	

5. What did you learn as a result of doing this Exploration that you did not know before?