Algebra 2   Name _____

Lesson 1.2 Worksheet   Block _____ Date _____

Identify the parent function for *h* from its function rule. Then graph *h* on your calculator and describe what transformation of the parent function it represents.

1. $y = \sqrt{x + 4}$ 2. $y = (x - 4)^3$ 3. $y = (x - 6)^2$
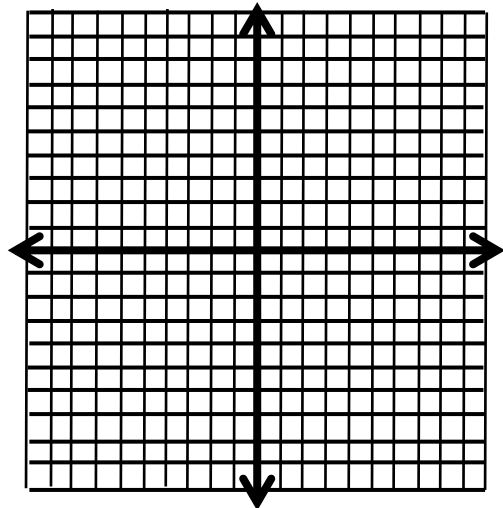
4. $y = x^3 + 3$ 5. $y = x - 5$ 6. $y = x^2 + 4$

Graph the data from the table. Describe the parent function and the transformation that best approximates the data set.
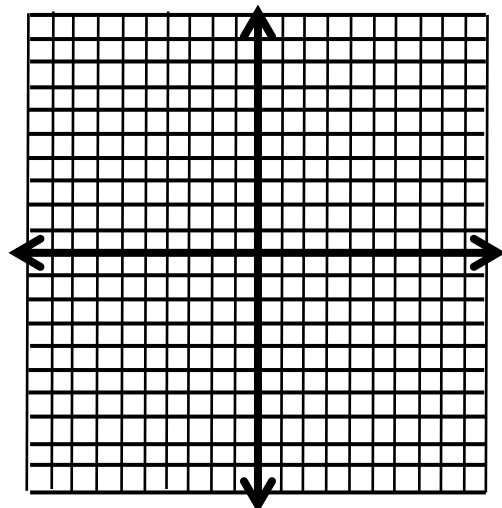
7.

x	Parent y	y
0		-6
1		-5
4		-4
9		-3

8.

x	Parent y	y
-8		-2
-4		-1
0		0
4		1
8		2

Complete each problem.

9. Graph the relationship from number of tickets to total cost in dollars and identify the parent function. Use the graph to estimate the total cost of 10 tickets.

Hockey Tickets				
Number of Tickets	1	5	8	12
Total Cost ($)	13	65	104	156