

Parent Function Homework

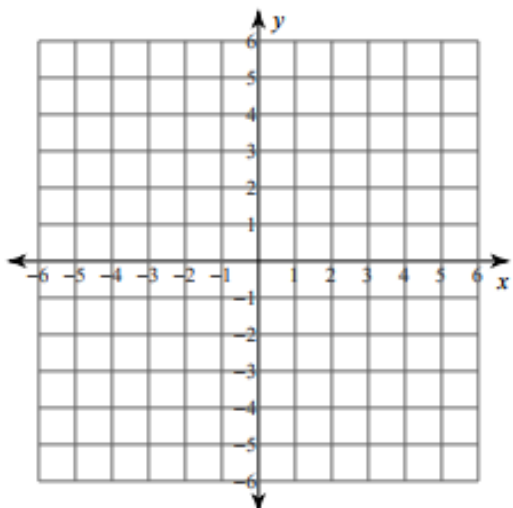
Algebra 2

Name _____

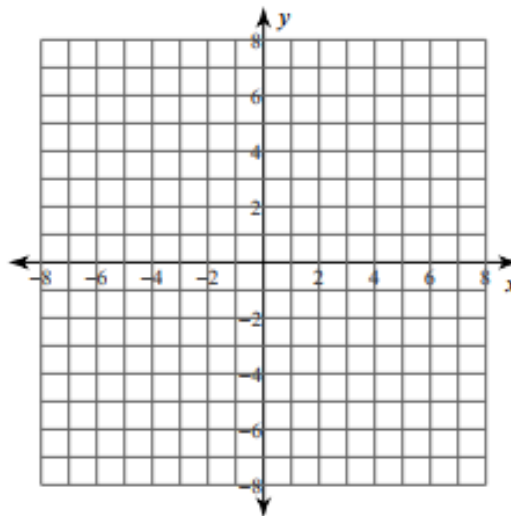
Date _____

Use a graphing Calculator to sketch a graph of each function AND its parent function. Identify the Domain and Range for both. Also identify any transformations that may have happened using your graph.

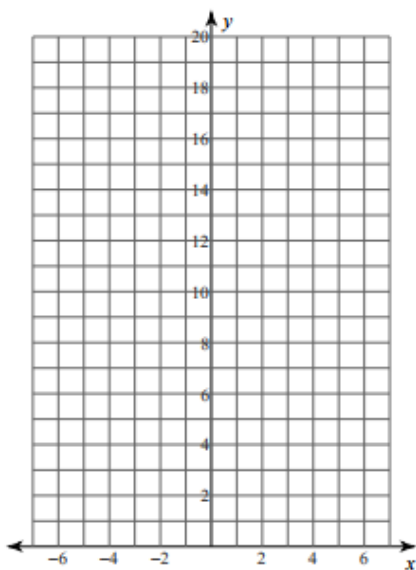
1) $y = \frac{7}{2}x - 2$



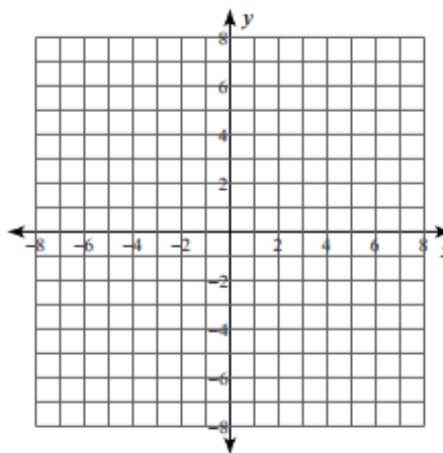
2) $f(x) = -x^2 + 4$



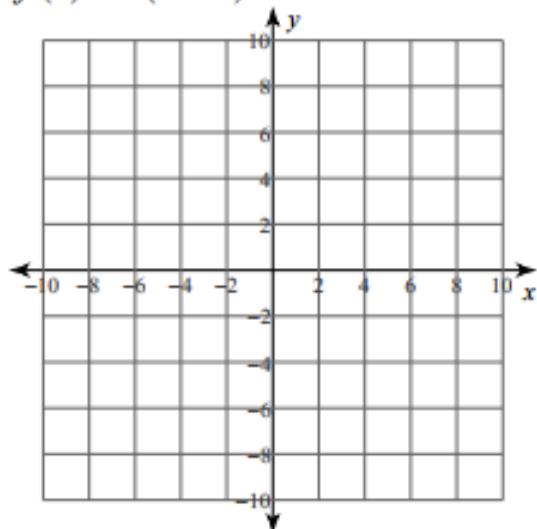
3) $y = 4 \cdot \left(\frac{1}{2}\right)^x$



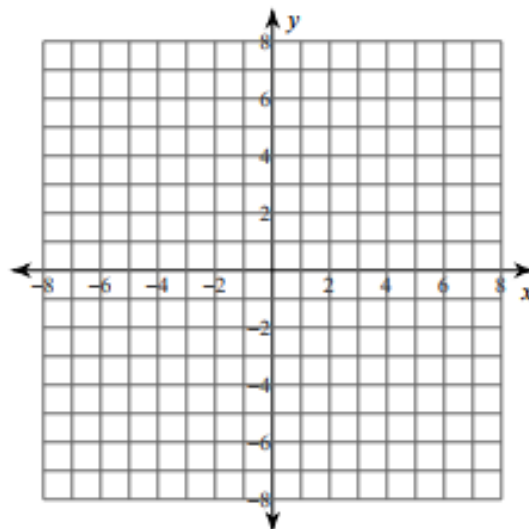
4) $y = -2\sqrt{x+4}$



5) $f(x) = -(x + 2)^3 + 1$



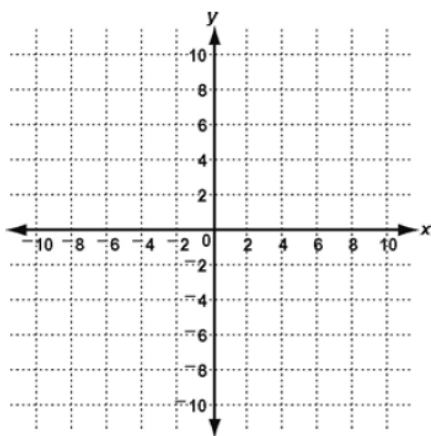
6) $y = \sqrt[3]{x+2} - 1$



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

7)

x	-2	-1	0	1	2
y	-9	-2	-1	0	7



8)

x	0	2	8	18	32
y	0	1	2	3	4

