

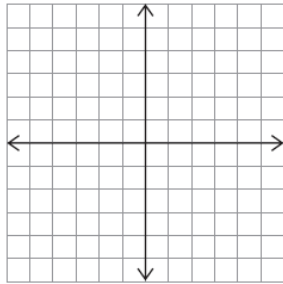
Secondary Math III
Power Functions
Assignment 3.2

Name: _____
 Period: _____

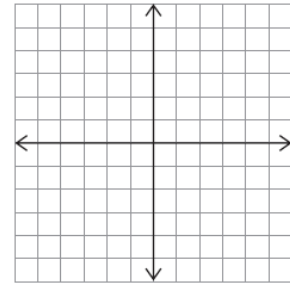
Carnegie Book: Pg. 170 #5 a&b

Sketch the graph of the power function and describe the end behavior of each graph.

1. $f(x) = -x^4$



2. $f(x) = x^7$

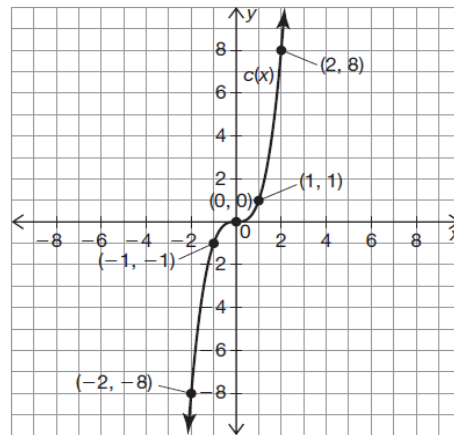


Describe the transformations, then use reference points to complete the table of values for each function. Graph the function on the coordinate plane.

3. $c(x) = x^3$ $g(x) = \frac{1}{4}c(x)$

Transformations: _____

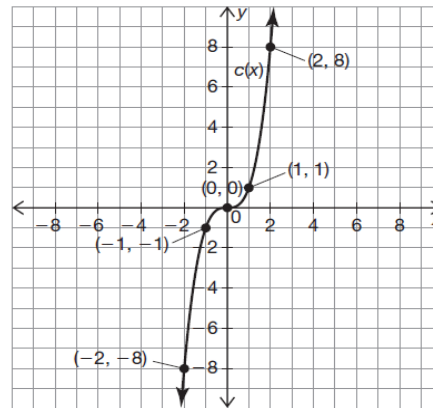
Reference Points on $c(x)$	→	Corresponding Points on $g(x)$
(0, 0)	→	
(1, 1)	→	
(2, 8)	→	



4. $c(x) = x^3$ $g(x) = -c(x-5)$

Transformations: _____

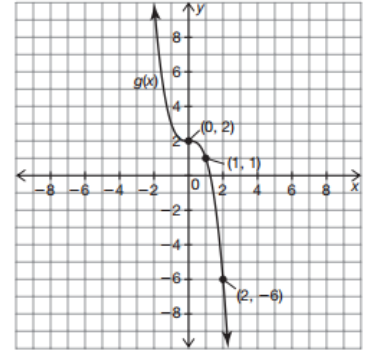
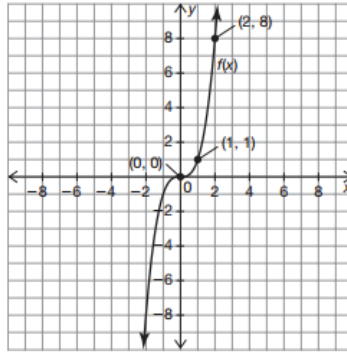
Reference Points on $c(x)$	→	Corresponding Points on $g(x)$
(0, 0)	→	
(1, 1)	→	
(2, 8)	→	



Describe the transformations from $f(x)$ to $g(x)$. Write an equation for $g(x)$ in terms of $f(x)$.

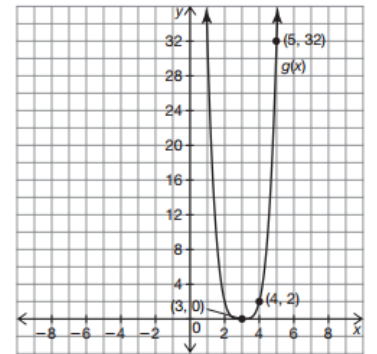
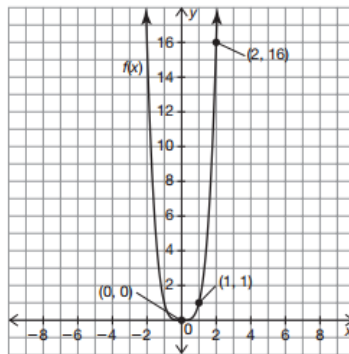
5.
Transformations: _____

$g(x) =$



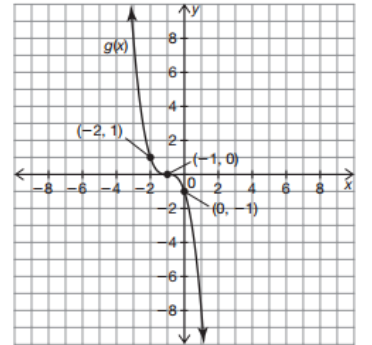
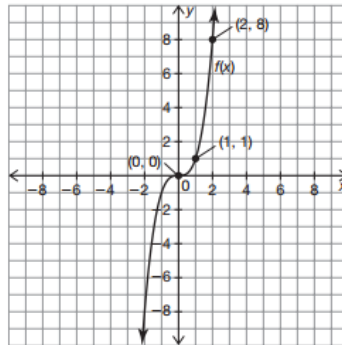
6.
Transformations: _____

$g(x) =$



7.
Transformations: _____

$g(x) =$



8.
Transformations: _____

$g(x) =$

