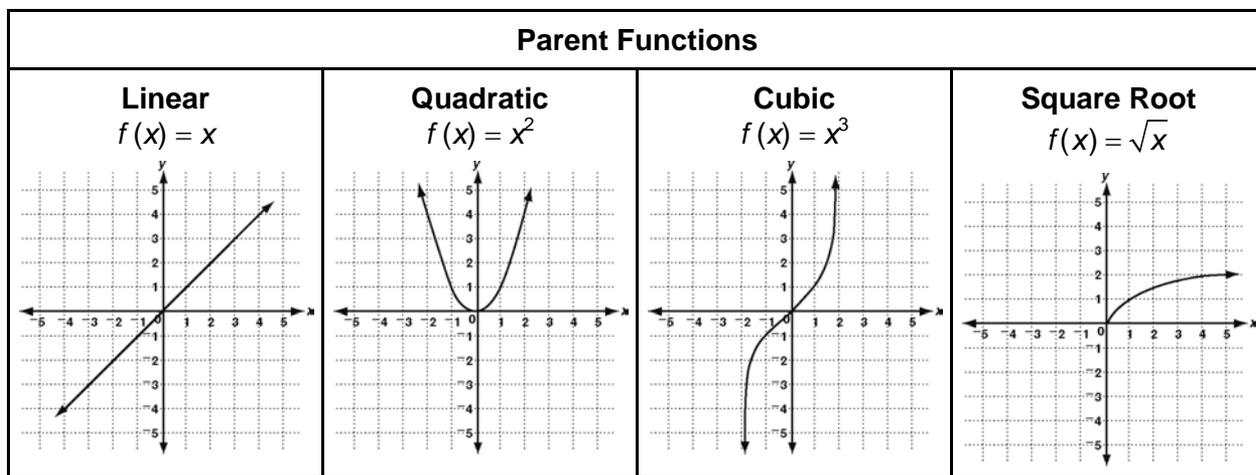


LESSON
1-2

Reteach

Introduction to Parent Functions

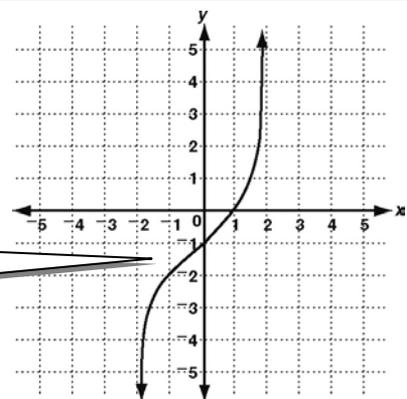
Functions can be classified into families. In the families, similar-looking functions represent transformations of a parent function.



The parent function of $g(x) = x^3 - 1$ is *cubic*.

x has a power of 3.

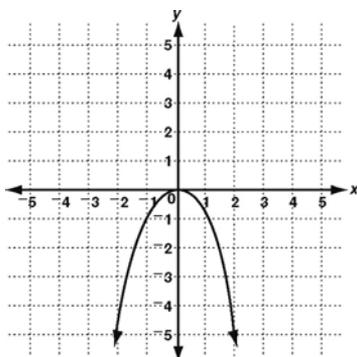
Compare the graph to the graph of the parent function.



$g(x) = x^3 - 1$ is a transformation from the parent function. It is a vertical translation 1 unit down.

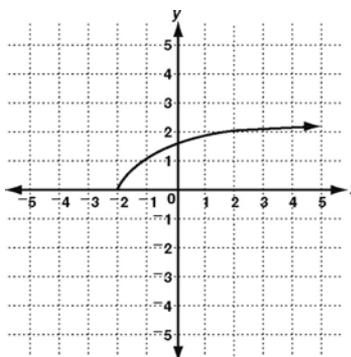
Identify the parent function for g from its function rule. Then describe what transformation of the parent function it represents.

1. $g(x) = -x^2$



Parent function _____

2. $g(x) = \sqrt{x+2}$



Parent function _____