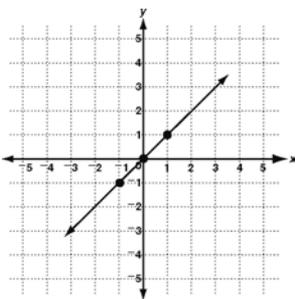
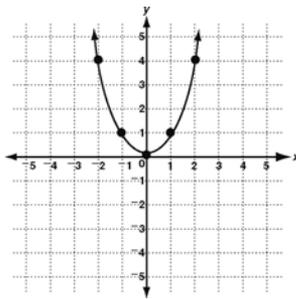
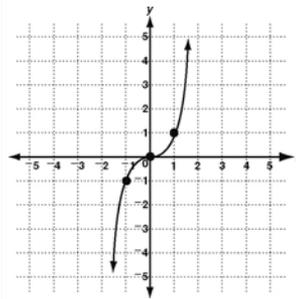
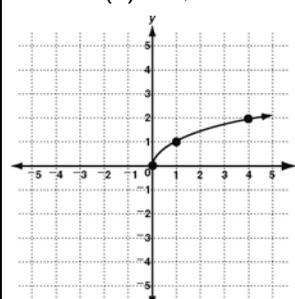


LESSON
1-2

Reading Strategies

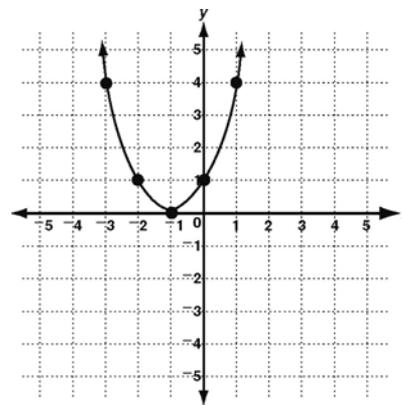
Use a Model

Every function belongs to a family of other functions whose graphs have similar shapes. Each family has a parent function. There may be lots of functions in the family, but there is only 1 parent function. Look at the models of the different parent functions in the table below. All linear functions are straight lines just like the function $f(x) = x$. The line may not be in exactly the same position on the coordinate plane, but it is still a straight line.

Parent Functions			
<p>Linear $f(x) = x$</p> 	<p>Quadratic $f(x) = x^2$</p> 	<p>Cubic $f(x) = x^3$</p> 	<p>Square Root $f(x) = \sqrt{x}$</p> 

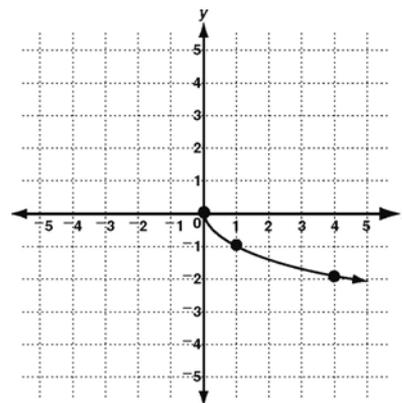
Use the graphs below and the table above for Exercises 1–6.

1. How is this function like the parent quadratic function?
How is it different?



2. What is the transformation of this function?

3. How is this function like the parent square root function?
How is it different?



4. What is the transformation of this function?
