



## 5-3 Reteach to Build Understanding

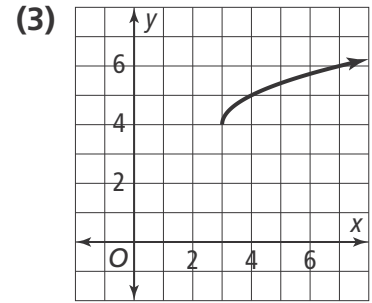
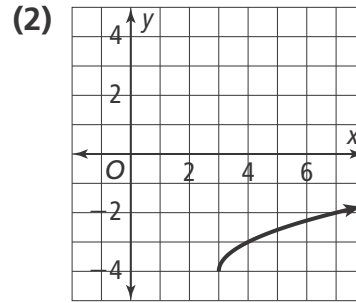
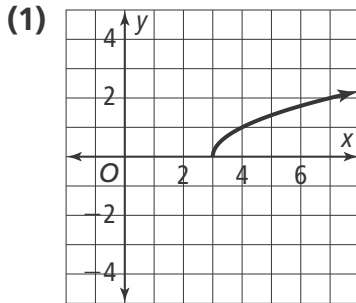
### Graphing Radical Functions

1. Match each graph with a radical function.

a.  $h(x) = \sqrt{x - 3}$

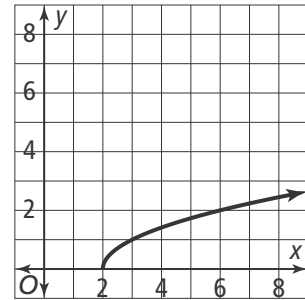
b.  $h(x) = \sqrt{x - 3} + 4$

c.  $h(x) = \sqrt{x - 3} - 4$



2. Damian wrote a radical function that is represented by the graph. Describe the error he made. Then, write the correct function.

Damian's Function:  $f(x) = \sqrt{x + 2}$



3. Fill in the blanks to find the transformations of the parent function for

$$g(x) = \sqrt{25(x - 5)} + 11.$$

Step 1. $g(x) = \sqrt{25(x - 5)} + 11$	Factor out 25 among the terms of radicand.
Step 2. _____	Write the radicand as the product of its factors.
Step 3. _____	Take the square root of 25.
Step 4. The parent function is _____	The graph of the parent function $f$ is stretched vertically by a factor of 5. Then the stretched graph is translated 5 units to the right and 11 units up.