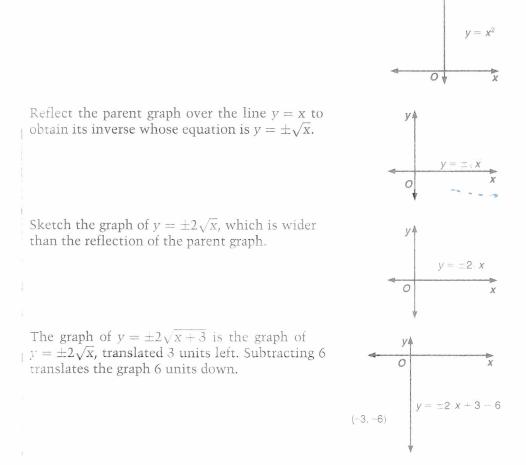
Sketch the graph of $y = \pm 2\sqrt{x+3} - 6$.

The parent graph is the graph of $y = x^2$.



YA

CHECKING FOR UNDERSTANDING

Read and study the lesson to answer each question.

- **1. Describe** the relationship between the coordinates of the ordered pairs of a relation and its inverse.
- **2.** Demonstrate how transformations are used to graph $y = \sqrt[3]{x-2} + 3$.
- **3. Find a counterexample** to this statement: The inverse of a function is also a function.
- **4. Show** how you know whether the inverse of a function is also a function without graphing the inverse.

Given point *P* of the function f(x), state the corresponding point *P'* in the inverse of the function.

5.
$$P(-4, 5)$$
 6. $P(-3, -2)$ **7.** $P(-2, 8)$ **8.** $P(3t, 8u)$

LESSON 3-3 INVERSE FUNCTIONS AND RELATIONS 129

95 $v - v^2$