



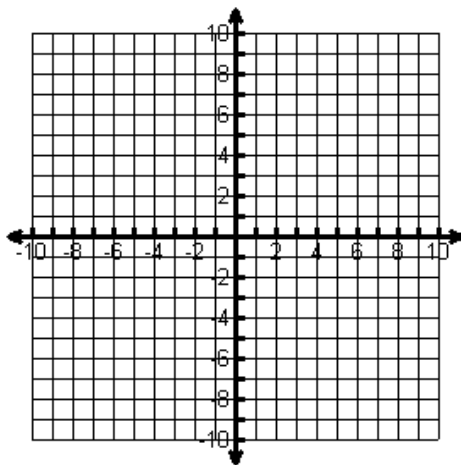
**Writing Equations given the transformations:**

1. The parent function  $f(x) = \sqrt{x}$  is reflected across the x-axis, stretched vertically by a factor of 4, and translated 1 unit up

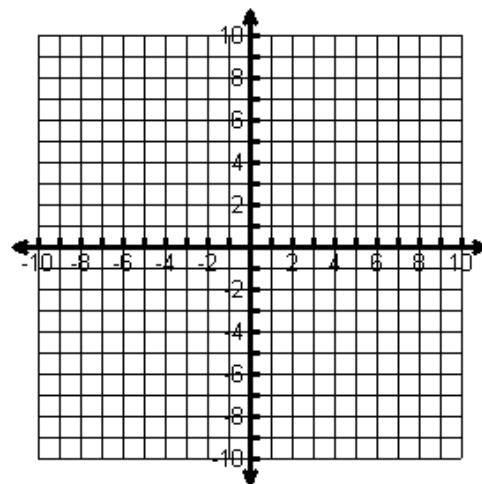
2. The parent function  $f(x) = \sqrt[3]{x}$  is stretched horizontally by a factor of 2, reflected across the y-axis, and translated 3 units left

**Graphing Radicals with transformation. Use your graphing calculator to plot points.**

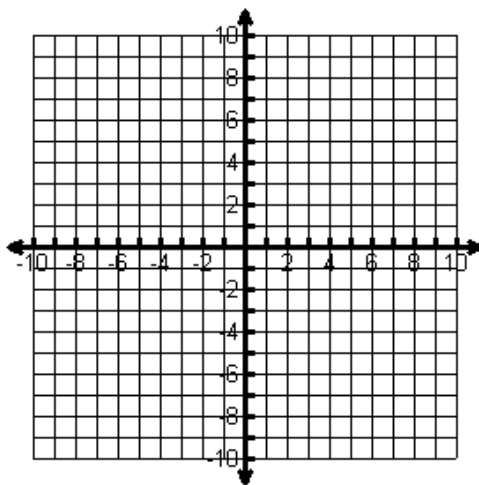
1.  $f(x) = \sqrt{x+6}$



2.  $f(x) = 3\sqrt[3]{x}$

**You try!**

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



4.  $f(x) = \sqrt[3]{x-2} + 3$

