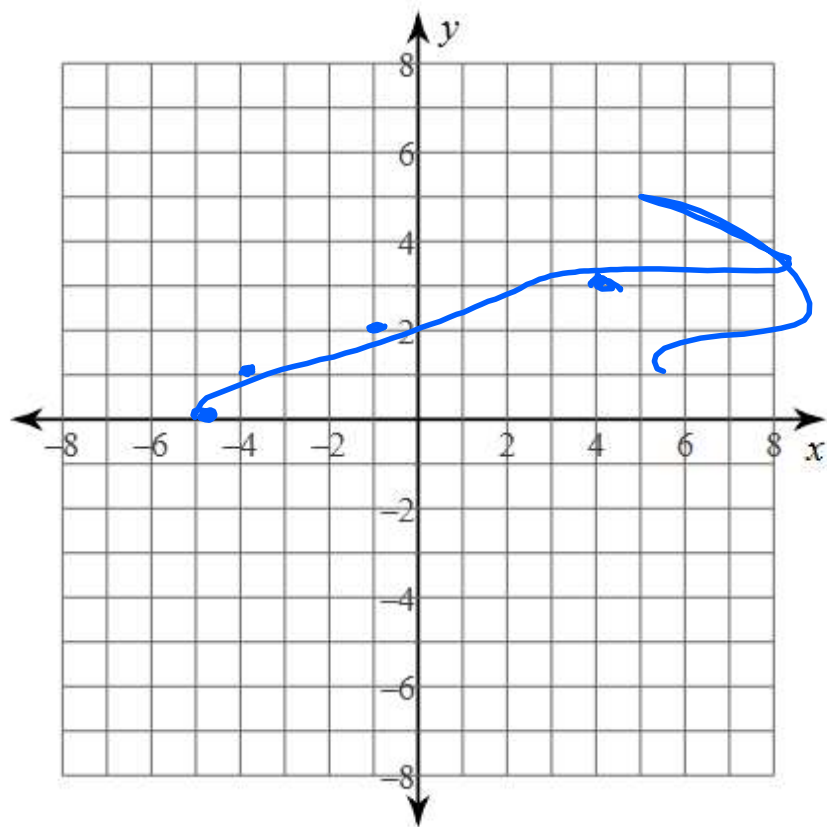


1) $y = \sqrt{x+5}$



x	y
-5	0
-4	1
-1	2
4	3

Starting Point $(-5, 0)$
Domain $[-5, \infty)$
Range $[0, \infty)$

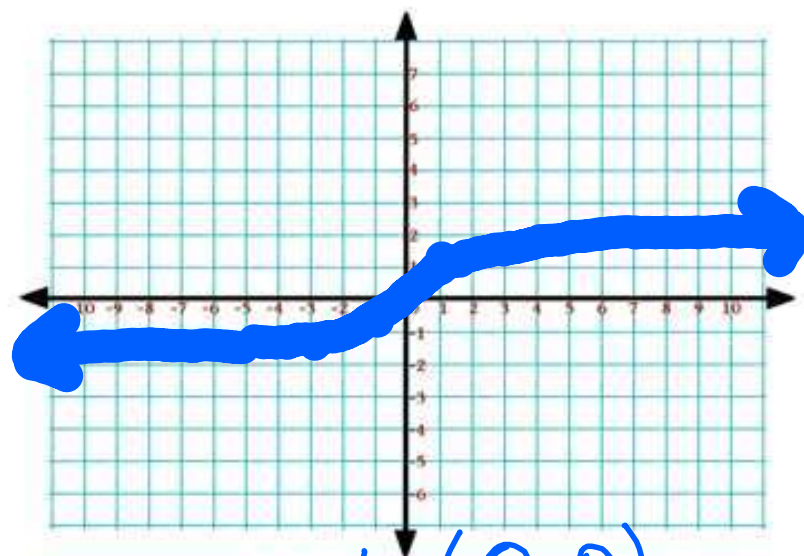
Let's now graph the parent of the cube root function, $f(x) = \sqrt[3]{x}$. An x/y table shows that is only practical to graph a few points. Because we can take the cube root of a positive or negative number, there are no domain restrictions.

Domain $(-\infty, \infty)$

Range $(-\infty, \infty)$

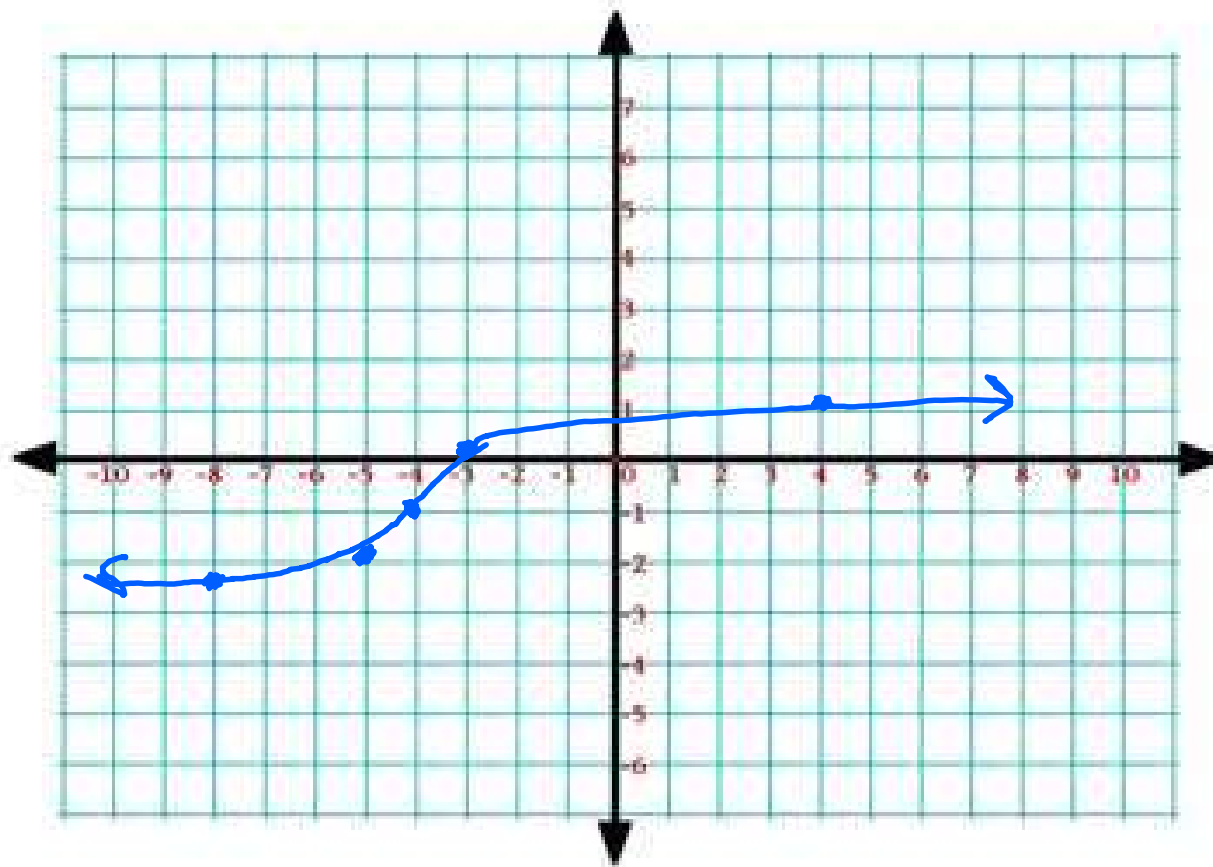
x	f(x)
0	0
1	1
2	1.3
3	1.4
4	1.6
8	2

x	f(x)
0	0
-1	-1
-2	-1.3
-3	-1.4
-4	-1.6
-8	-2



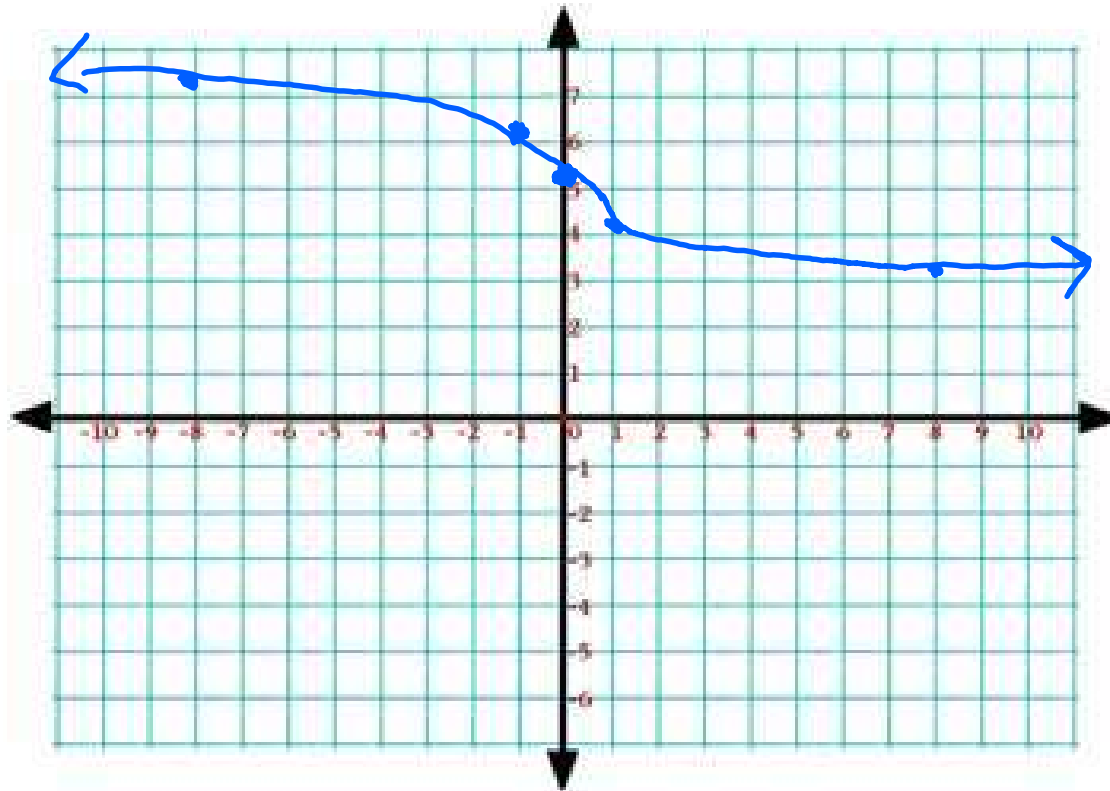
Middle Point $(0, 0)$

Example 1: $y = \sqrt[3]{x+4} - 1$



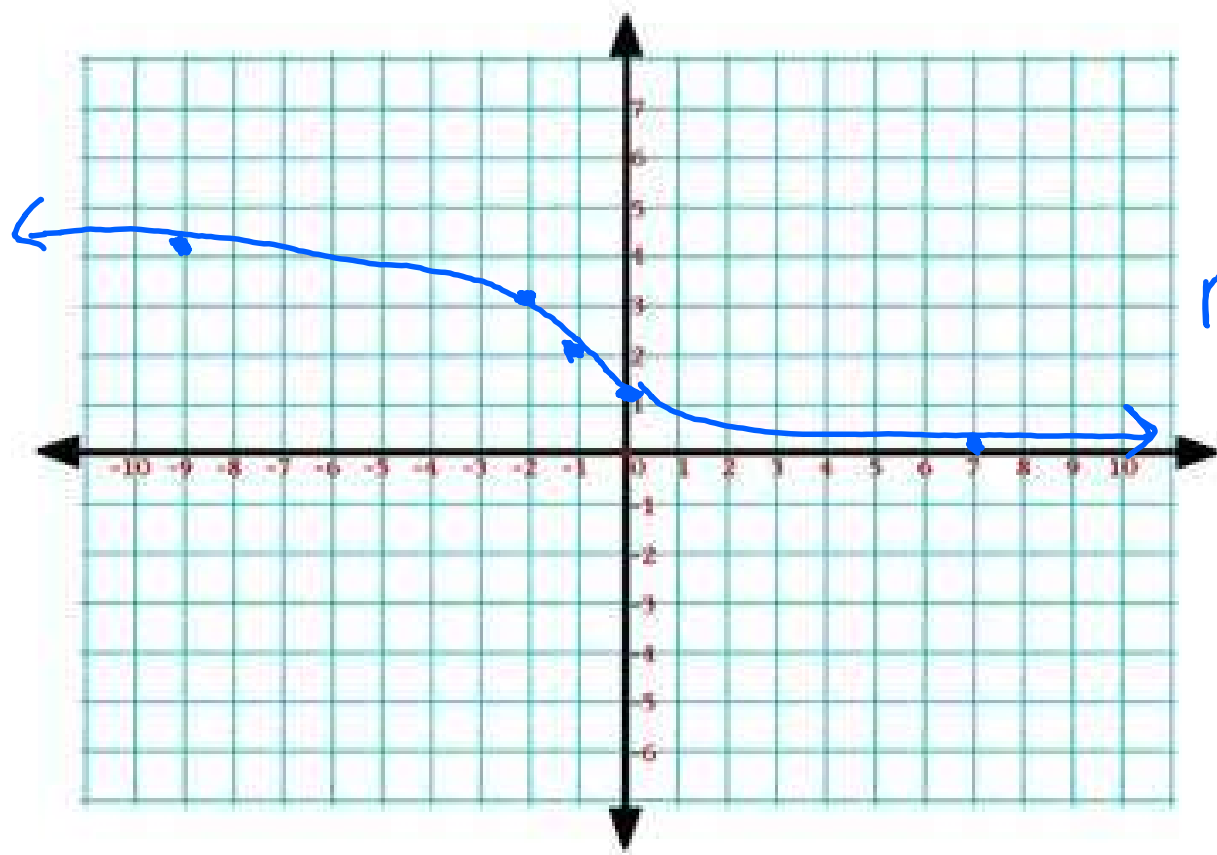
middle Point
 $(-4, -1)$

Example 2: $y = -\sqrt[3]{x} + 5$



middle Point
(0, 5)

Example 3: $y = -\sqrt[3]{x+1} + 2$



Middle Point
 $(-1, 2)$

Example 4: $y = 3\sqrt[3]{x - 4}$

