KEY

HCCM2 Day 5 HW: Graphing Radical Functions

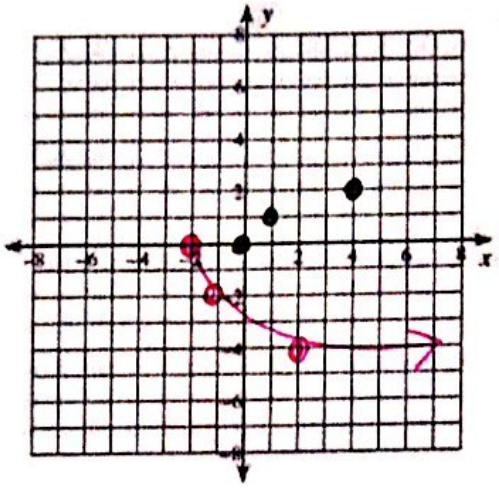
Answer the questions and sketch a graph.

1) $y = -2\sqrt{x+2}$

a) Describe the transformations from the parent function:
Reflect x-axis, vertical stretch of 2, left 2

b) Domain: $[-2, \infty)$

c) Range: $(-\infty, 0]$

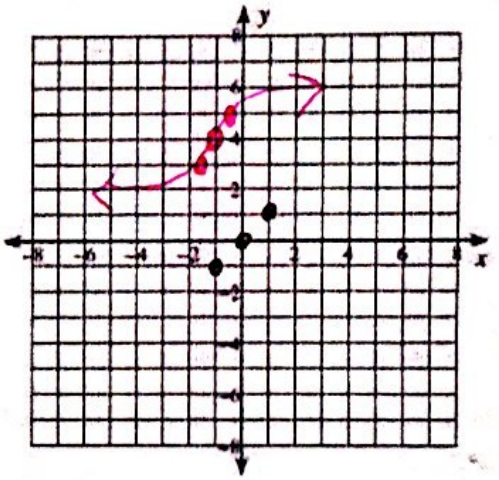


2) $y = \frac{1}{2}\sqrt[3]{x+1} + 4$

a) Describe the transformations from the parent function:
left 1, up 4, v. shrink of $\frac{1}{2}$

b) Domain: $(-\infty, \infty)$

c) Range: $(-\infty, \infty)$



3) $y = \sqrt{x-4} - 2$

a) Describe the transformations from the parent function:
right 4, down 2

b) Domain: $[4, \infty)$

c) Range: $[-2, \infty)$