

HCCM2 Day 5 HW: Graphing Radical Functions

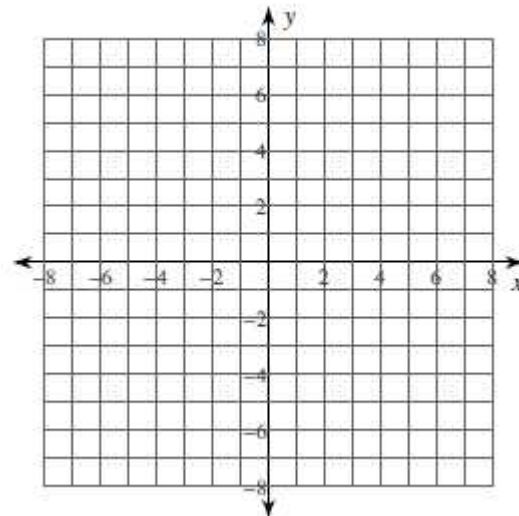
Answer the questions and sketch a graph.

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

a) Describe the transformations from the parent function:  
\_\_\_\_\_

b) Domain: \_\_\_\_\_

c) Range: \_\_\_\_\_

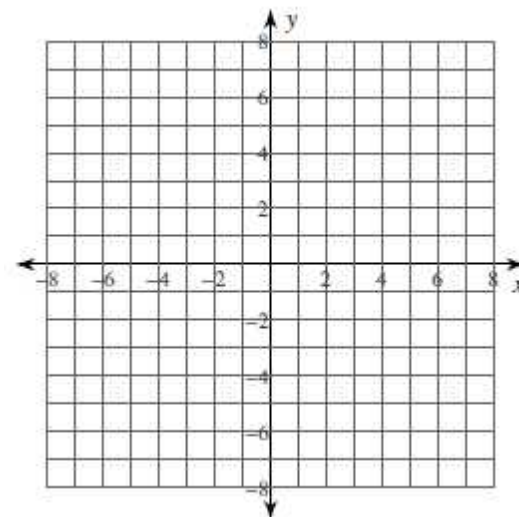


2)  $y = \frac{1}{2}\sqrt[3]{x+1} + 4$

a) Describe the transformations from the parent function:  
\_\_\_\_\_

b) Domain: \_\_\_\_\_

c) Range: \_\_\_\_\_

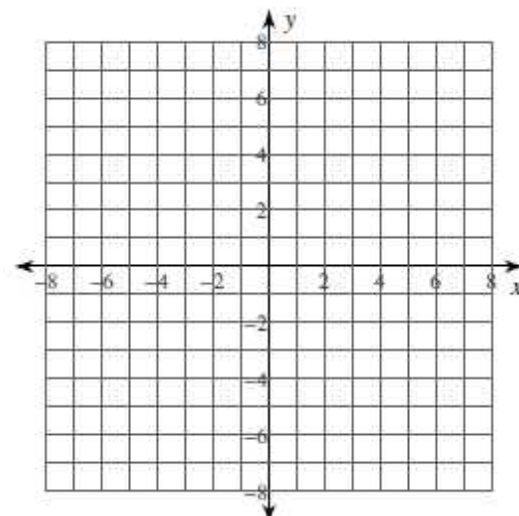


3)  $y = \sqrt{x-4} - 2$

a) Describe the transformations from the parent function:  
\_\_\_\_\_

b) Domain: \_\_\_\_\_

c) Range: \_\_\_\_\_

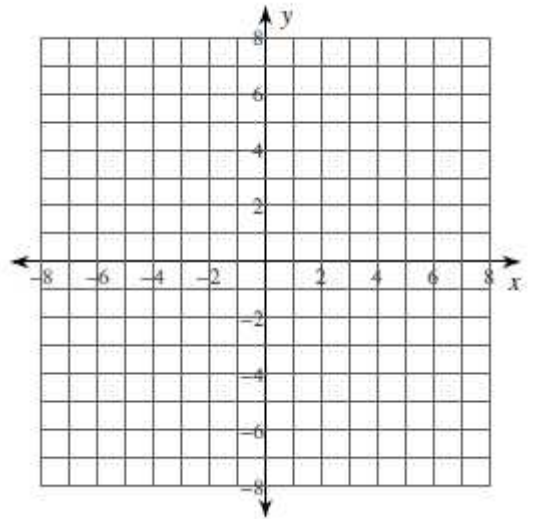


4)  $y = -2 + \sqrt[3]{x}$

a) Describe the transformations from the parent function:  
 \_\_\_\_\_

b) Domain: \_\_\_\_\_

c) Range: \_\_\_\_\_

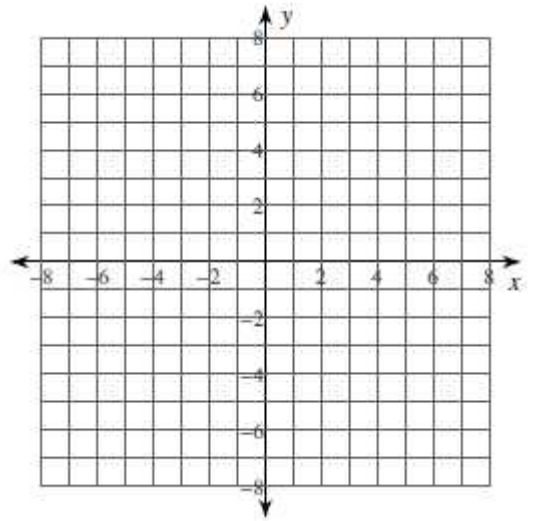


5)  $y = \sqrt{x} - 2$

a) Describe the transformations from the parent function:  
 \_\_\_\_\_

b) Domain: \_\_\_\_\_

c) Range: \_\_\_\_\_



Rewrite the function so that it is in graphing form. Describe the transformations from the parent graph.

6)  $y = \sqrt{81x + 162}$

7)  $y = -\sqrt{4x + 20}$

8)  $y = \sqrt[3]{125x - 250}$

9)  $y = -\sqrt[3]{8x - 56} + 4$