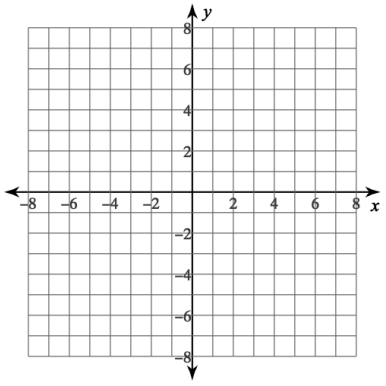
Secondary Math 3 Regular Name_____

3-4 Graphing Radical Functions

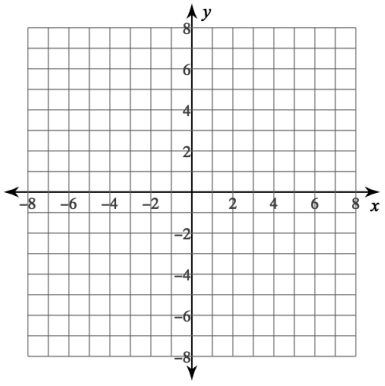
Period____

(3-4a) State the transformations and sketch the graph. Also, identify the domain and range of each.

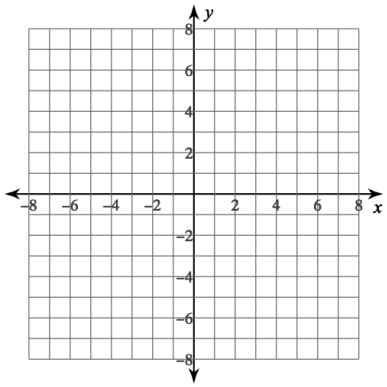
1) $y = -\sqrt{x-1} - 1$



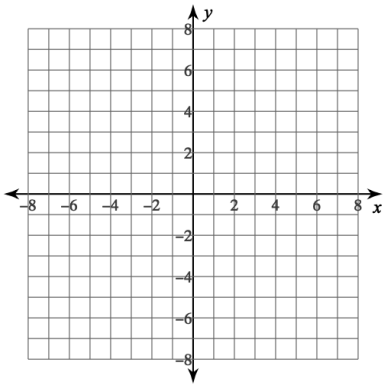
2) $y = \sqrt{x+3}$



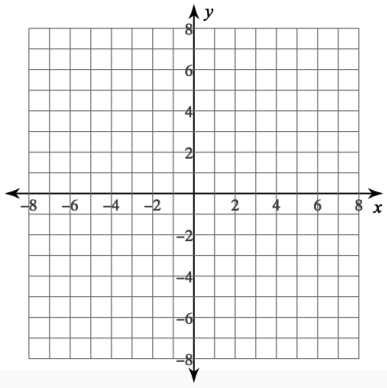
3) $y = \sqrt{x-2} - 2$



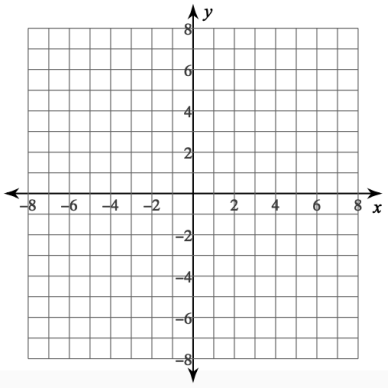
4) $y = 2\sqrt{x}$



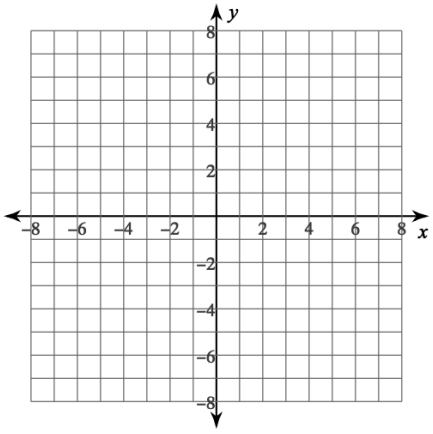
5) $y = \sqrt[3]{x} + 5$



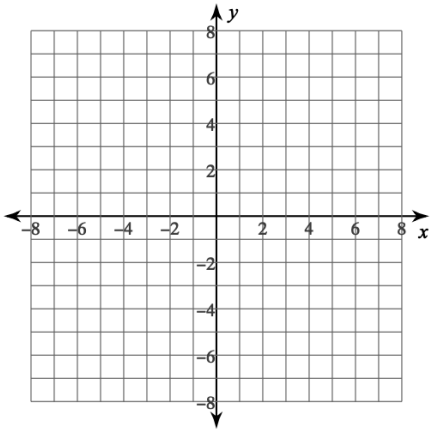
6) $y = \sqrt[3]{x-4} + 1$



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

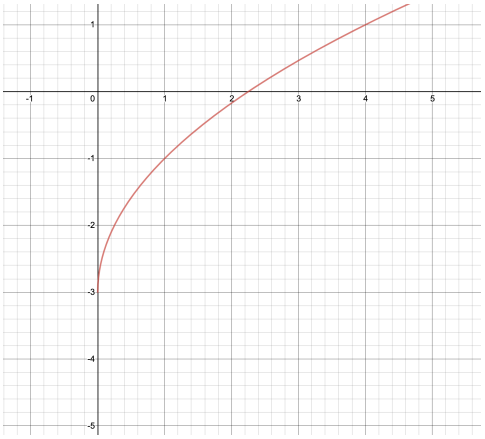


8) $y = 2\sqrt[3]{x-4} + 1$

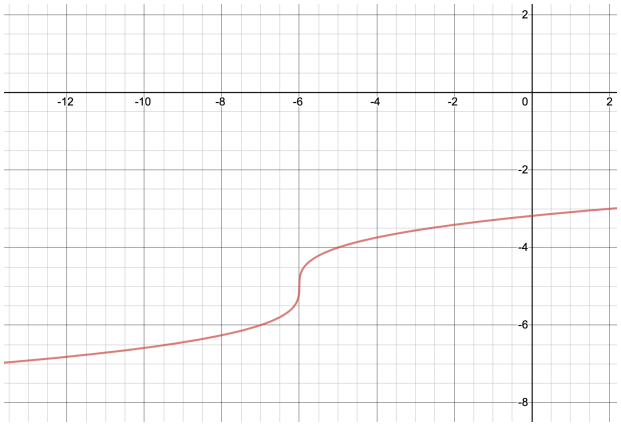


Write the equation for each function.

9)



10)



(3-3a) Solve each equation. Remember to check for extraneous solutions.

11) $\sqrt{110 - x} = x$

12) $\sqrt{3n - 4} = \sqrt{n + 2}$