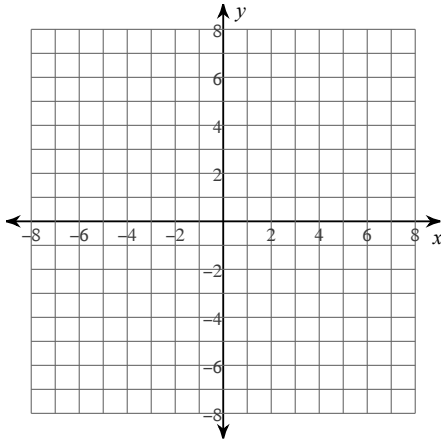


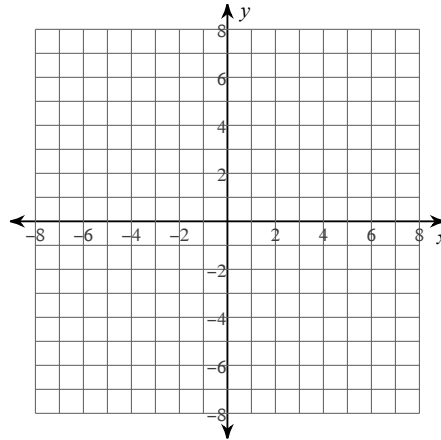
Unit 3 Final Review

Identify the domain and range of each. Then sketch the graph.

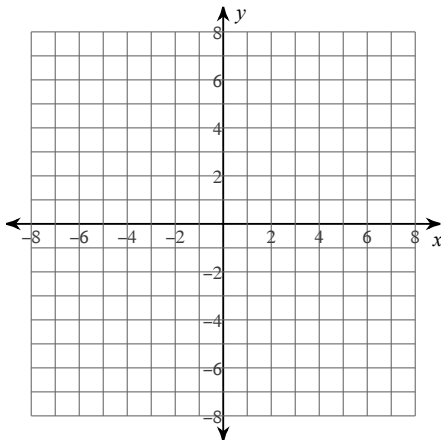
1) $y = -2\sqrt{x + 3} + 1$



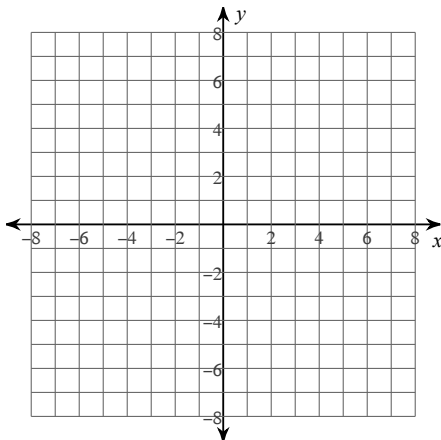
2) $y = \sqrt{x + 1} + 4$



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



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



Solve each equation. Remember to check for extraneous solutions.

$$5) \sqrt{-6 - 2x} = \sqrt{1 - x}$$

$$6) 7 + \sqrt{-10 - 2m} = 9$$

$$7) \sqrt{5x + 51} - x = 3$$

$$8) \sqrt{56 - 7p} = p - 8$$

$$9) \sqrt{45 - 5b} = b - 9$$