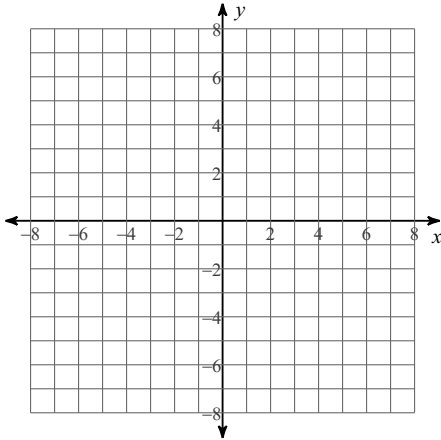


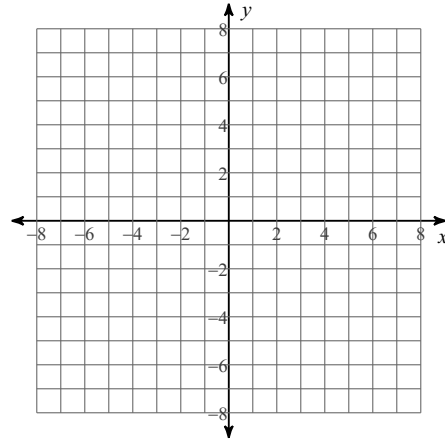
Key Characteristics of radical equations

Sketch the graph of each function and state the domain and range.

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

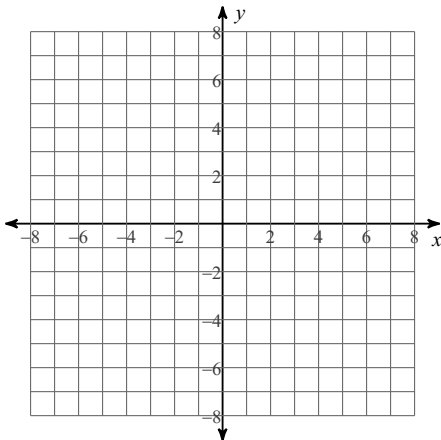


2) $y = \sqrt{x} - 1$

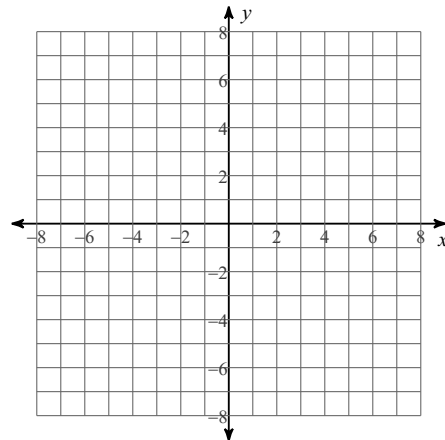


Sketch the graph of each function and state the x-intercept & y-intercept.

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

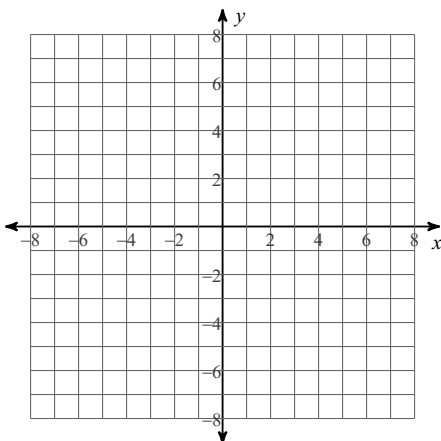


4) $y = 4\sqrt{x-3} - 5$

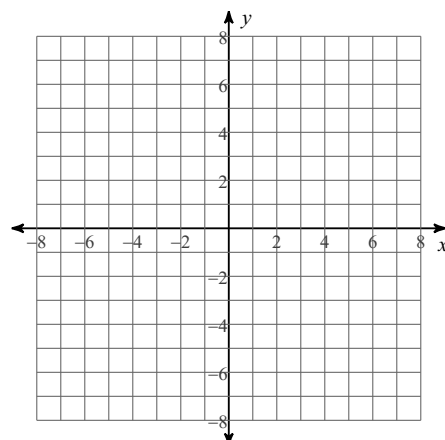


Sketch the graph of each function and state the interval of increase and interval of decrease.

5) $y = -\sqrt{x+6}$

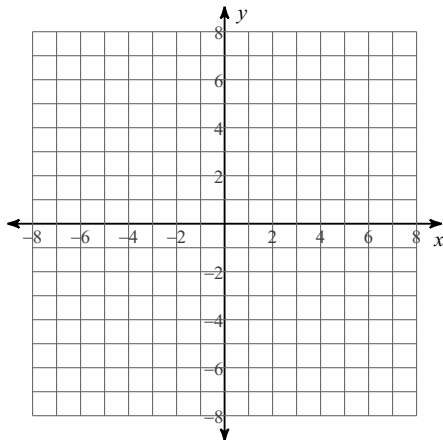


6) $y = \frac{2}{5}\sqrt{x+4} + 3$

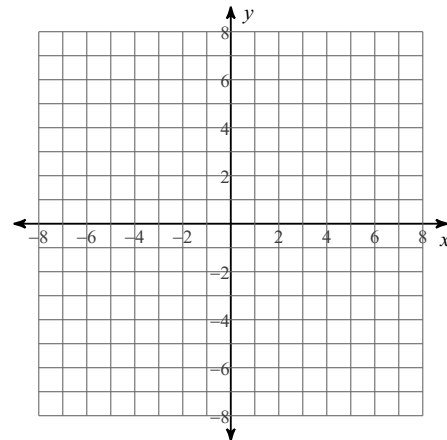


Sketch the graph of each function and state the graph is positive and where the graph is negative.

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

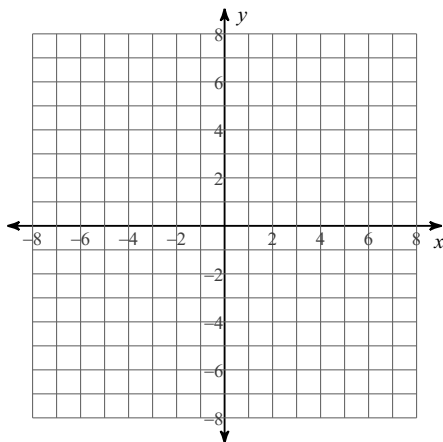


8) $y = \sqrt[3]{-27x - 81} + 2$

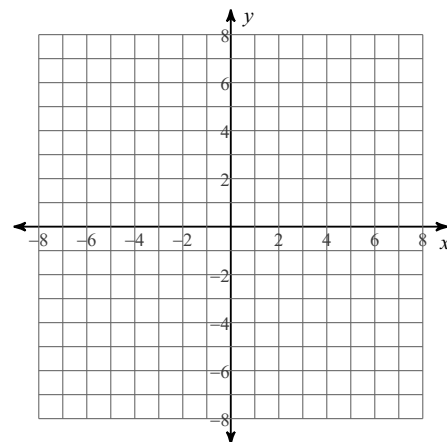


Sketch the graph of each function and state maximum and minimum.

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

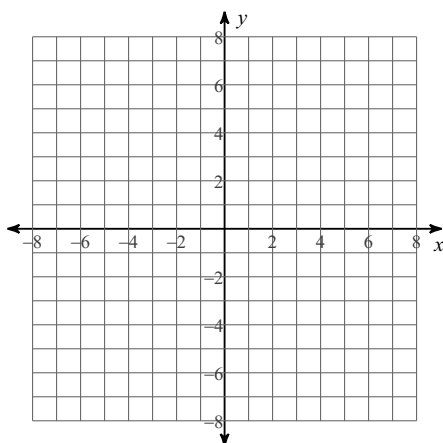


10) $y = -\frac{1}{2}\sqrt{x-4} - 3$



Sketch the graph of each function and state the end behavior.

11) $y = 4 + \sqrt[3]{8x}$



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

