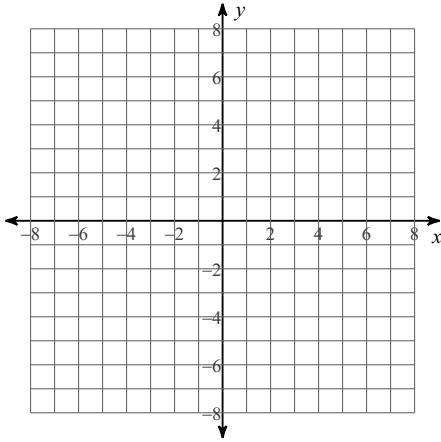


## Review Key Characteristics & Solving Radical Eqns

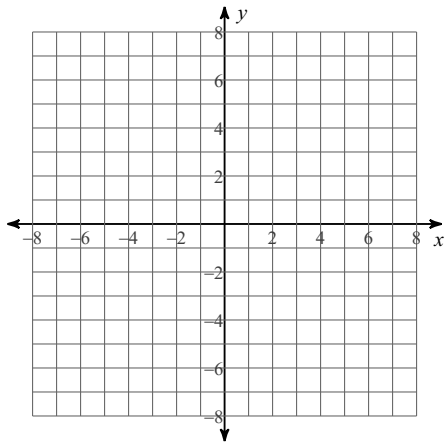
**Sketch the graph of each function and state the domain and range.**

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



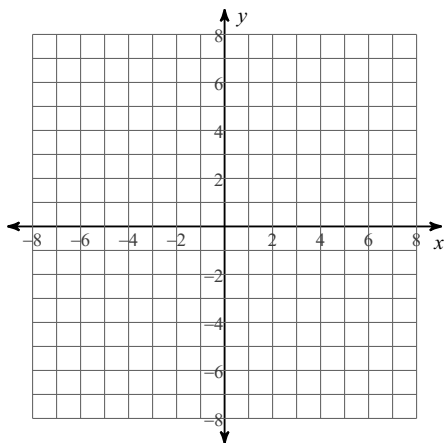
Sketch the graph of each function and state the x-intercept & y-intercept.

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



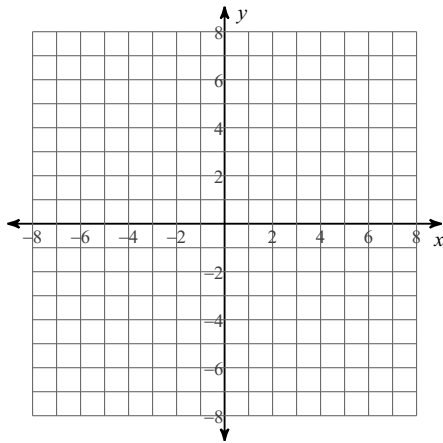
Sketch the graph of each function and state the interval of increase and interval of decrease.

3)  $y = \sqrt{x+6} - 2$



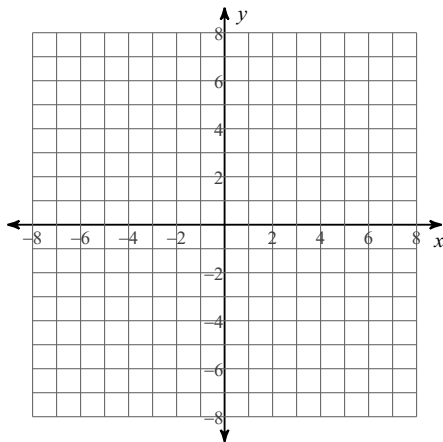
Sketch the graph of each function and state the graph is positive and where the graph is negative.

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



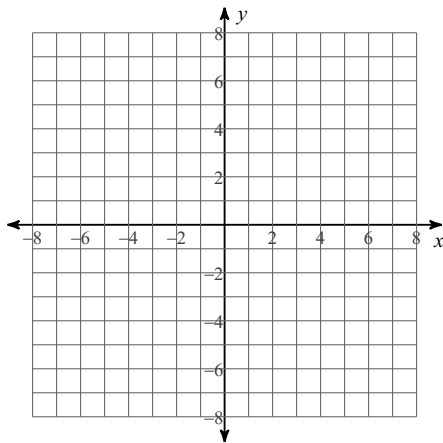
Sketch the graph of each function and state maximum and minimum.

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



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

$$6) y = \sqrt[3]{\frac{x+1}{8}} - 2$$



Solve each equation.

$$7) \sqrt{5k} = 5$$

$$8) 2 = \sqrt{x}$$

$$9) \sqrt{n+2} = 5$$

$$10) \sqrt{-7-2n} = \sqrt{3n+28}$$