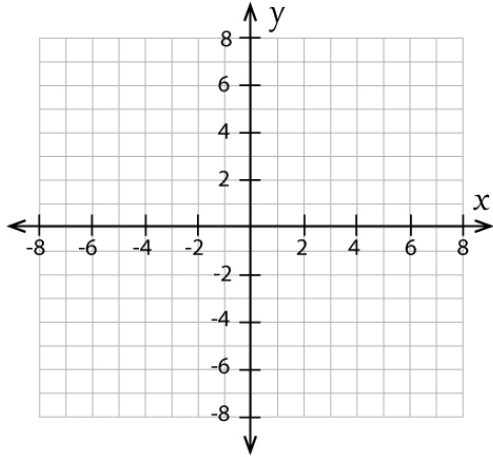


# GRAPHING RADICAL FUNCTIONS

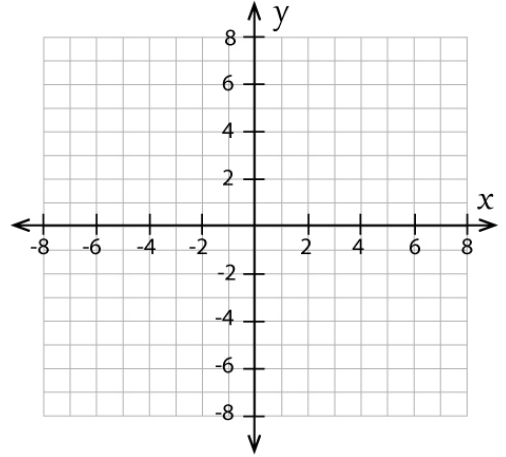
Graph the following radical functions. List the domain and range in interval notation.

①  $f(x) = -\sqrt{-x}$



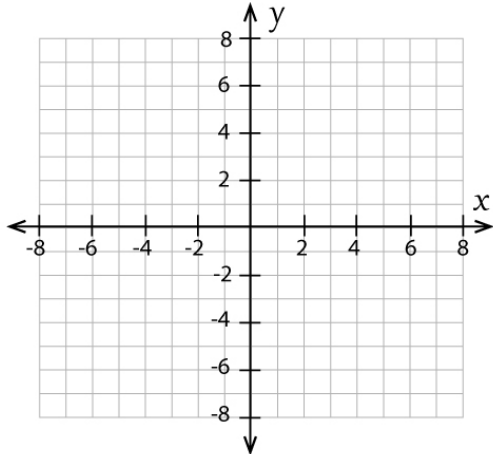
domain: \_\_\_\_\_ range: \_\_\_\_\_

②  $f(x) = \sqrt{x} - 2$



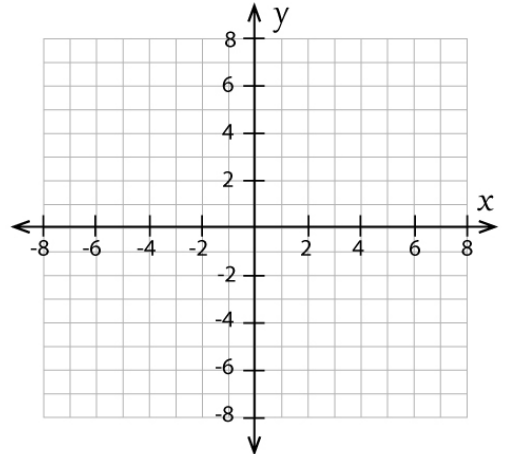
domain: \_\_\_\_\_ range: \_\_\_\_\_

③  $f(x) = \sqrt{x+1} - 2$



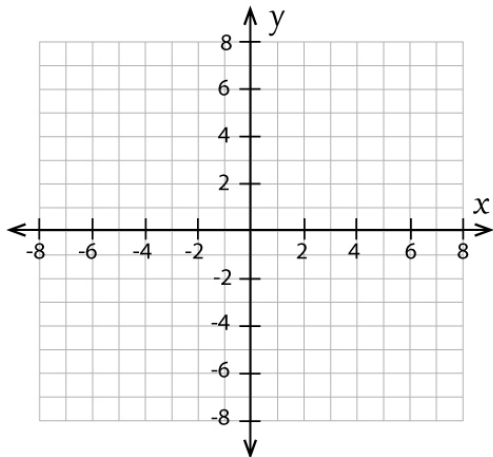
domain: \_\_\_\_\_ range: \_\_\_\_\_

④  $f(x) = -2 + \sqrt[3]{x}$



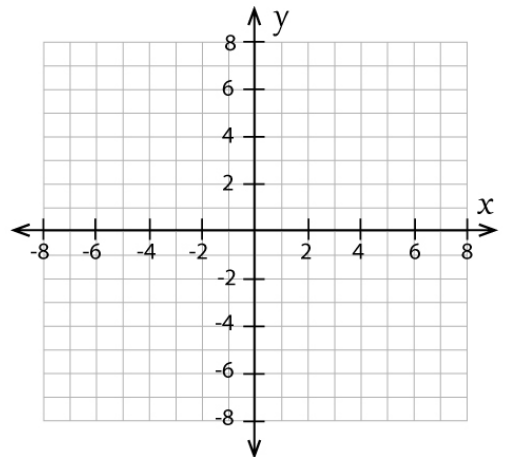
domain: \_\_\_\_\_ range: \_\_\_\_\_

⑤  $f(x) = -3\sqrt[3]{-x}$



domain: \_\_\_\_\_ range: \_\_\_\_\_

⑥  $f(x) = \sqrt{3x-6}$

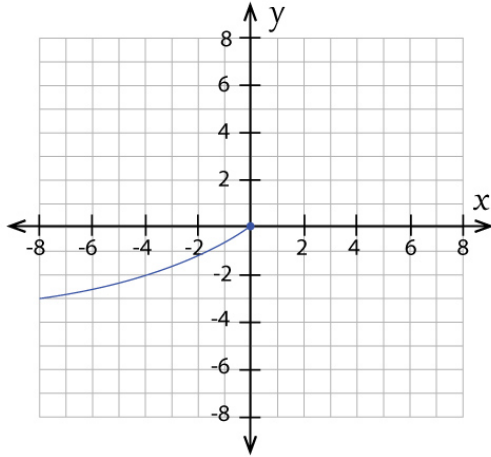


domain: \_\_\_\_\_ range: \_\_\_\_\_

# GRAPHING RADICAL FUNCTIONS

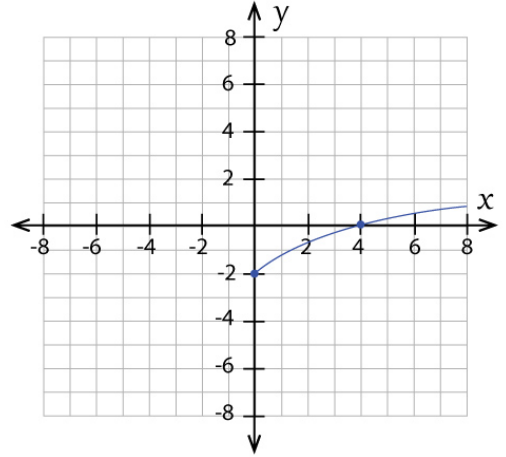
## Answers

①  $f(x) = -\sqrt{-x}$



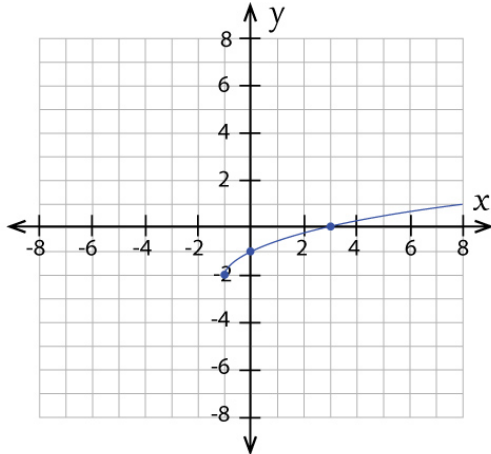
domain:  $(-\infty, 0]$  range:  $(-\infty, 0]$

②  $f(x) = \sqrt{x} - 2$



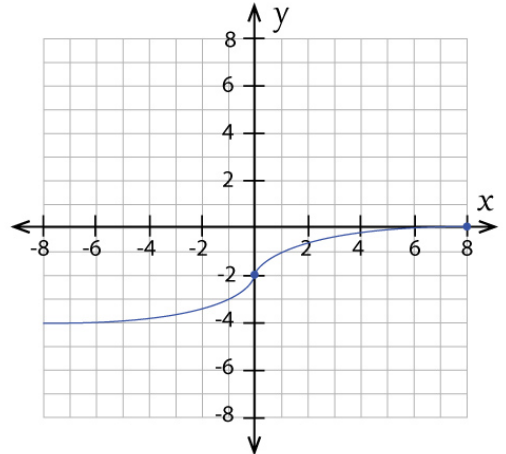
domain:  $[0, \infty)$  range:  $[-2, \infty)$

③  $f(x) = \sqrt{x+1} - 2$



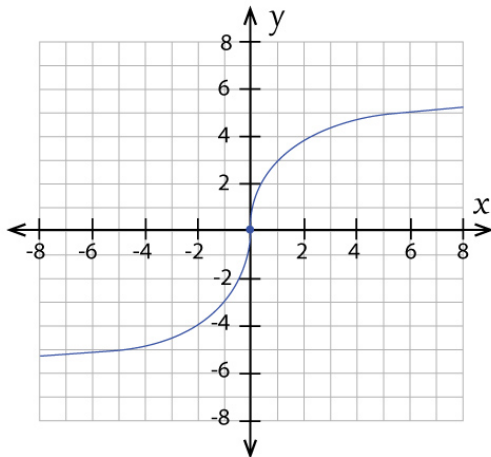
domain:  $[-1, \infty)$  range:  $[-2, \infty)$

④  $f(x) = -2 + \sqrt[3]{x}$



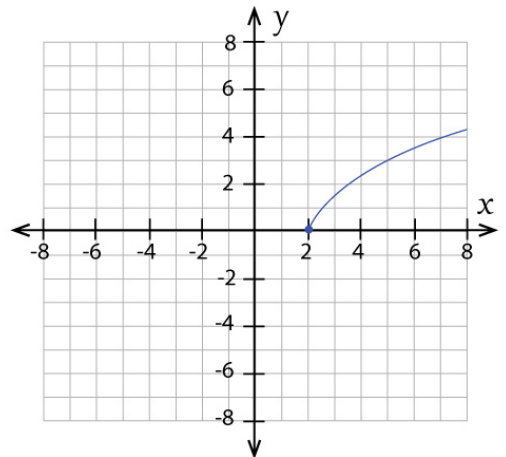
domain:  $(-\infty, \infty)$  range:  $(-\infty, \infty)$

⑤  $f(x) = -3\sqrt[3]{-x}$



domain:  $(-\infty, \infty)$  range:  $(-\infty, \infty)$

⑥  $f(x) = \sqrt{3x-6}$



domain:  $[2, \infty)$  range:  $[0, \infty)$