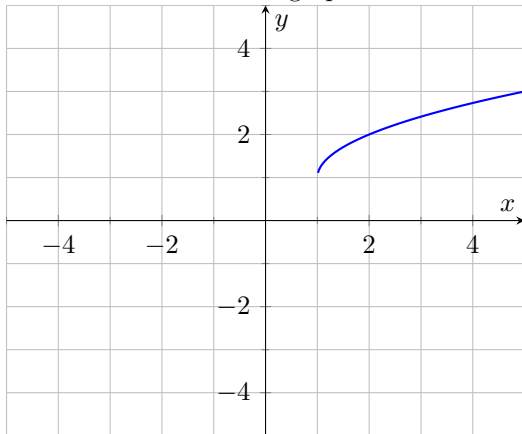
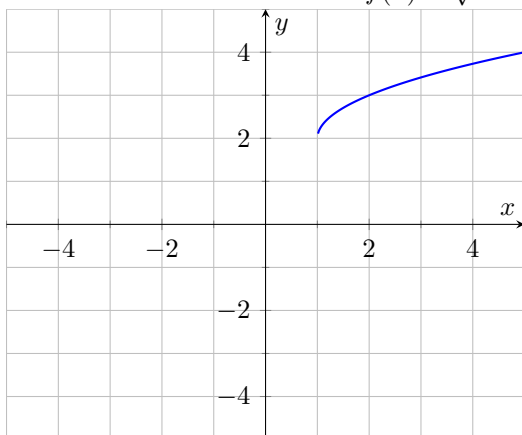


1. Match the function's graph with the correct formula for $f(x)$.



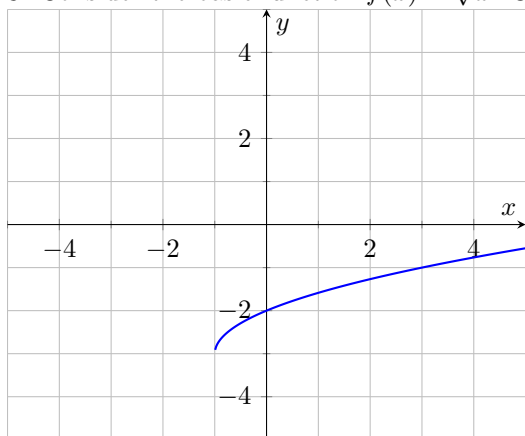
- A. $f(x) = \sqrt{x+1} - 1$
- B. $f(x) = \sqrt{x+1} + 1$
- C. $f(x) = \sqrt{x-1} - 1$
- D. $f(x) = \sqrt{x-1} + 1$

2. Consider the basic function $f(x) = \sqrt{x}$. Choose the transformation of $f(x)$ which gives the graph below.



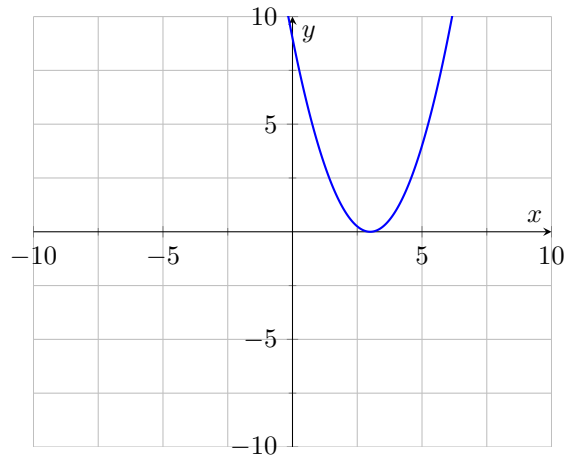
- A. $f(x+1) + 2$
- B. $f(x-1) + 2$
- C. $f(x+1) - 2$
- D. $f(x-1) - 2$

3. Consider the basic function $f(x) = \sqrt{x}$. Choose the transformation of $f(x)$ which gives the graph below.



- A. $f(x + 1) + 3$
- B. $f(x - 1) - 3$
- C. $f(x - 1) + 3$
- D. $f(x + 1) - 3$

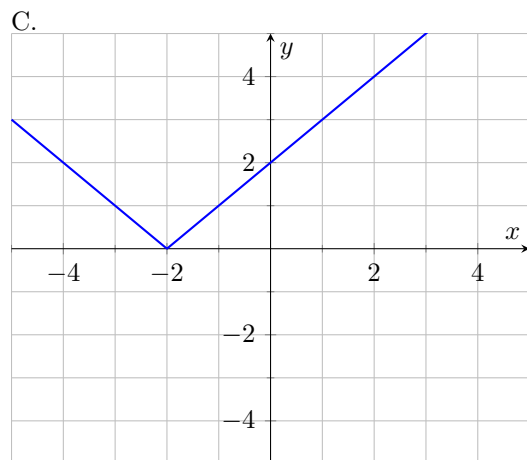
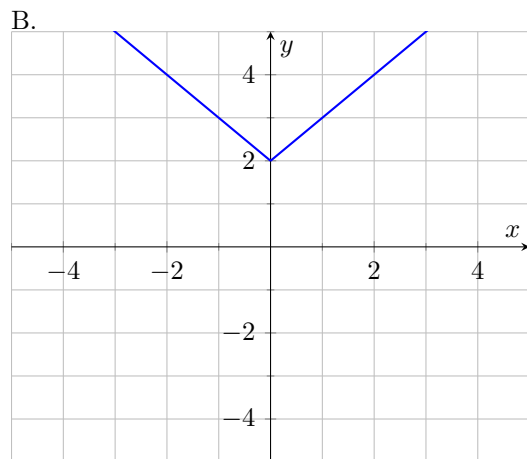
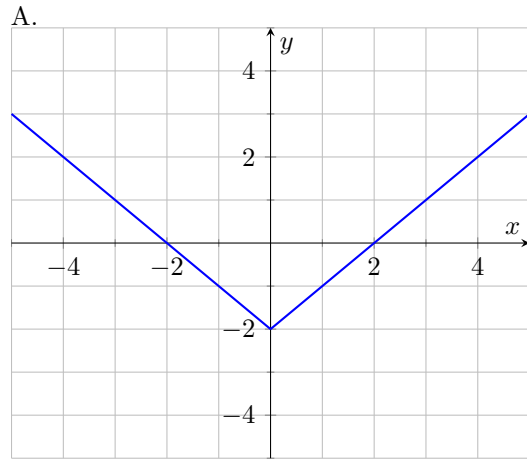
4. Match the function graph with its formula. Use the shape of the graph of the function and your knowledge of translations to make your choices.



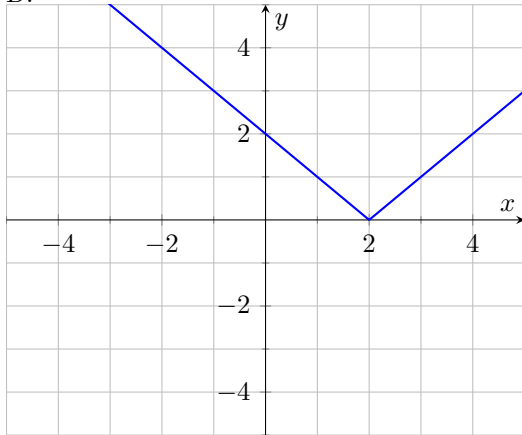
- A. $f(x) = (x - 3)^2$
- B. $f(x) = (x - 4)^2$
- C. $f(x) = x - 1$
- D. $f(x) = \sqrt[3]{x} + 5$
- E. $f(x) = \sqrt[3]{x + 5}$

5. Match the function $f(x)$ with its graph.

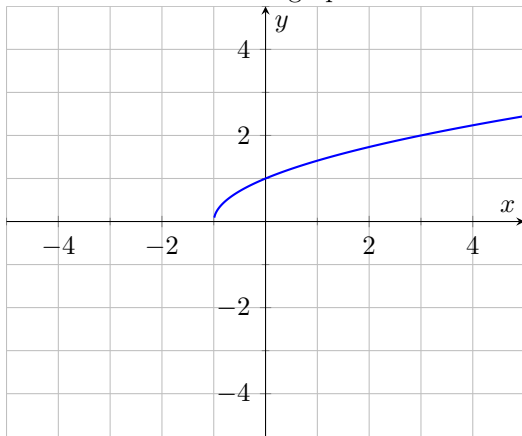
$$f(x) = |x - 2|$$



D.



6. Match the function's graph with the correct formula for $f(x)$.



A. $f(x) = \sqrt{x} + 1$

B. $f(x) = \sqrt{x+1}$

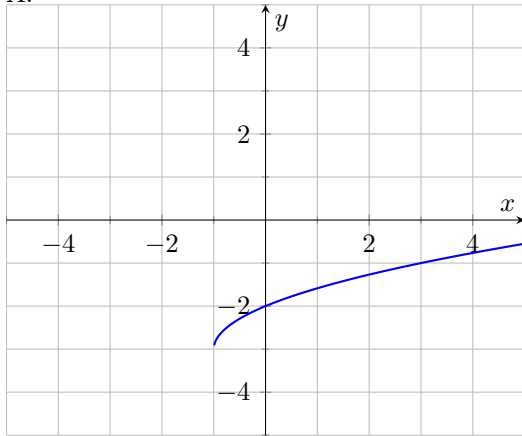
C. $f(x) = \sqrt{x-1}$

D. $f(x) = \sqrt{x} - 1$

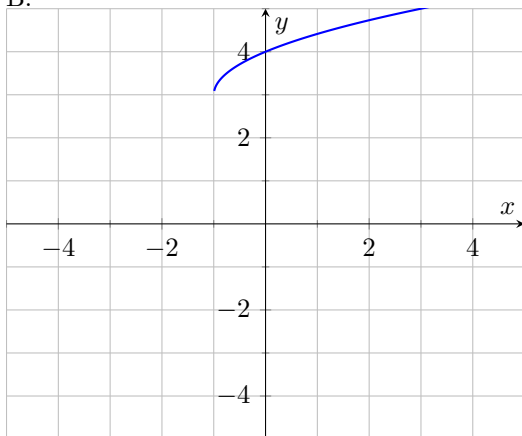
7. Match the function $f(x)$ with its graph.

$$f(x) = \sqrt{x-1} + 3$$

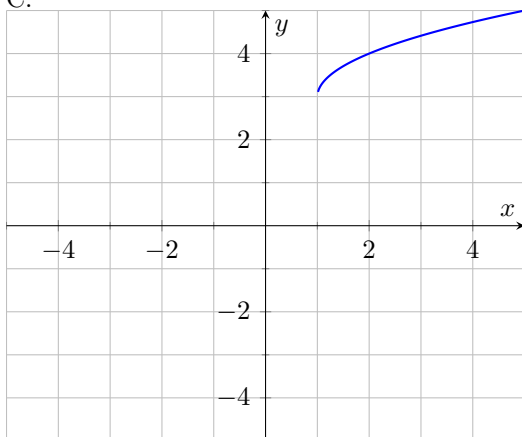
A.



B.



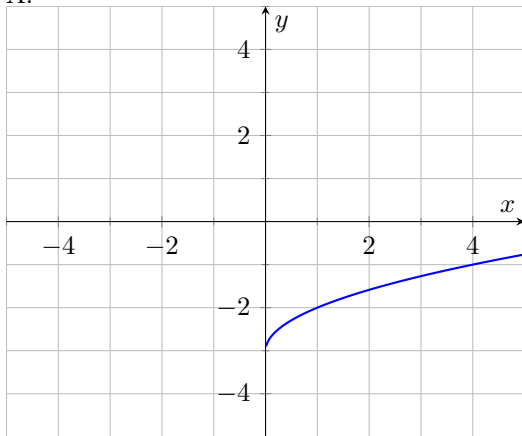
C.



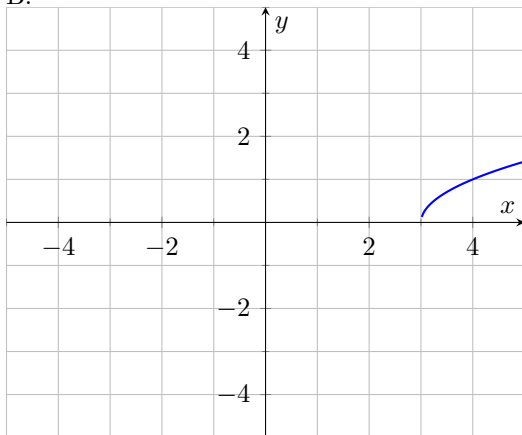
8. Match the function $f(x)$ with its graph.

$$f(x) = \sqrt{x} - 3$$

A.



B.



C.

