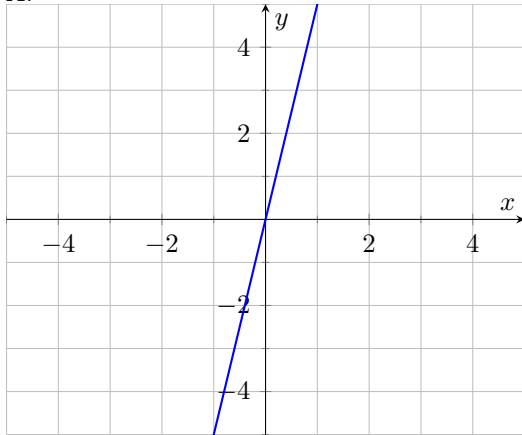


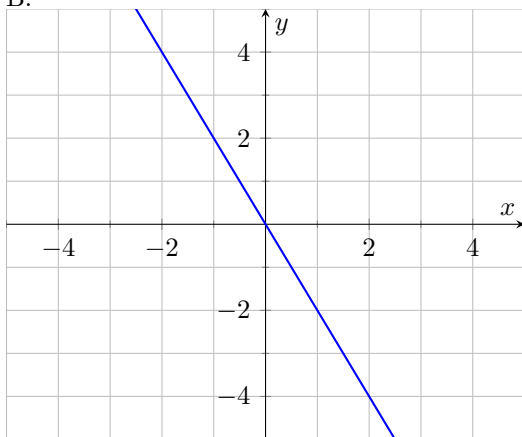
1. Match the graph to the function.

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

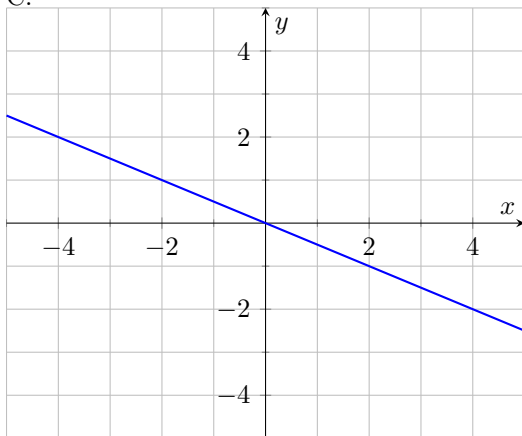
A.



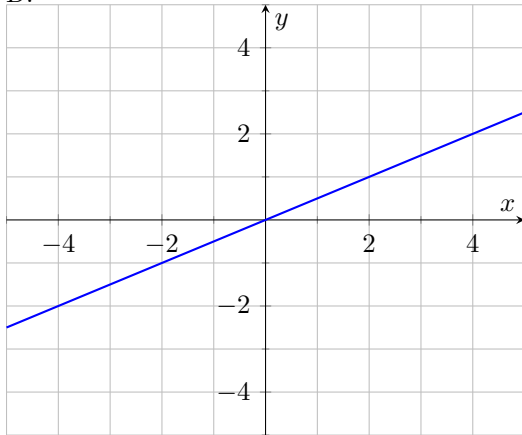
B.



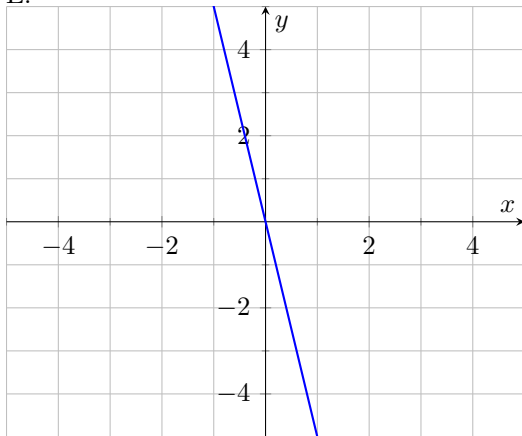
C.



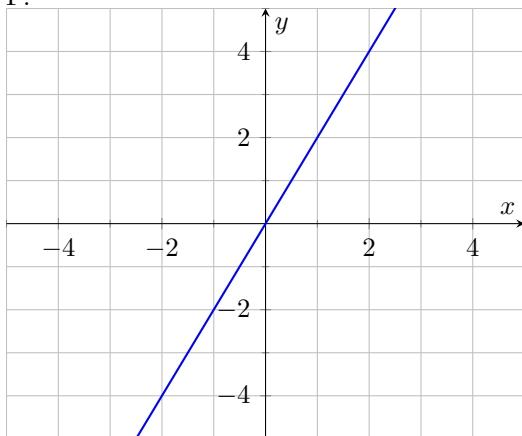
D.



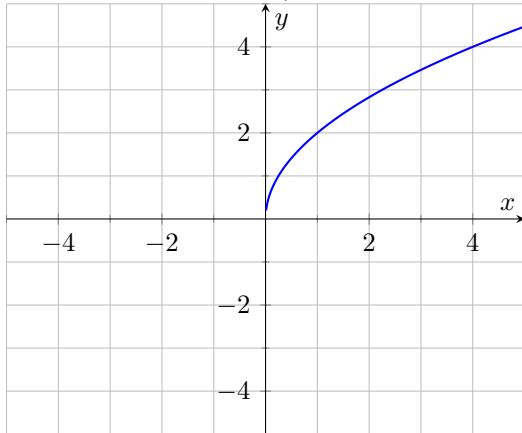
E.



F.

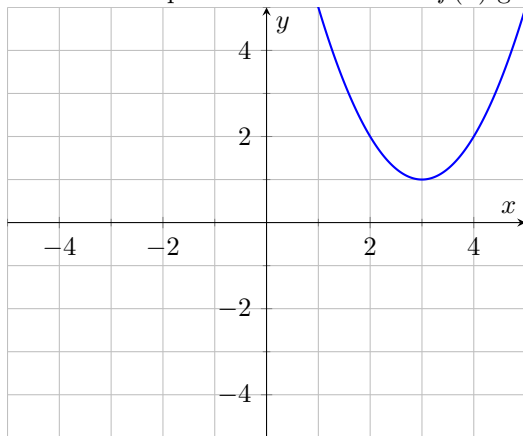


2. Match the function graph with its formula. Use the shape of the graph of the function and your knowledge of translations to make your choices.



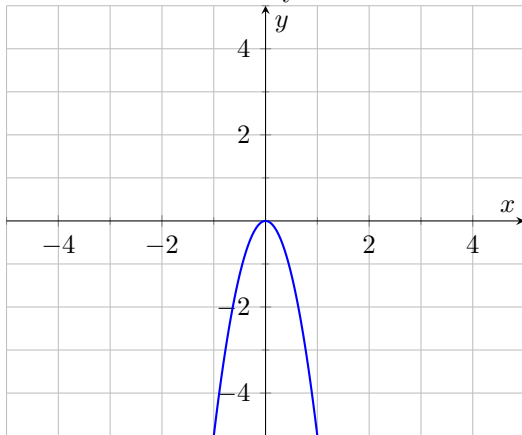
- A.  $f(x) = \frac{1}{2}\sqrt{x}$
- B.  $f(x) = -2\sqrt{x}$
- C.  $f(x) = -5\sqrt{x}$
- D.  $f(x) = 2\sqrt{x}$
- E.  $f(x) = 5\sqrt{x}$
- F.  $f(x) = -\frac{1}{5}\sqrt{x}$
- G.  $f(x) = -\frac{1}{2}\sqrt{x}$
- H.  $f(x) = \frac{1}{5}\sqrt{x}$

3. Find the equation of the function  $f(x)$  graphed below.



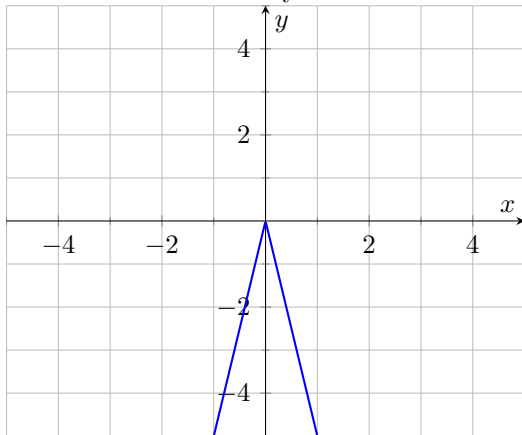
- A.  $f(x) = 0.5(x + 3)^2 + 3$
- B.  $f(x) = -3(x - 3)^2 - 3$
- C.  $f(x) = (x - 3)^2 + 1$
- D.  $f(x) = -0.5(x - 4)^2 + 1$
- E.  $f(x) = -(x + 3)^2 + 1$
- F.  $f(x) = -2(x + 1)^2 + 1$
- G.  $f(x) = 3(x - 1)^2 + 1$
- H.  $f(x) = 2(x - 3)^2 - 1$

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.



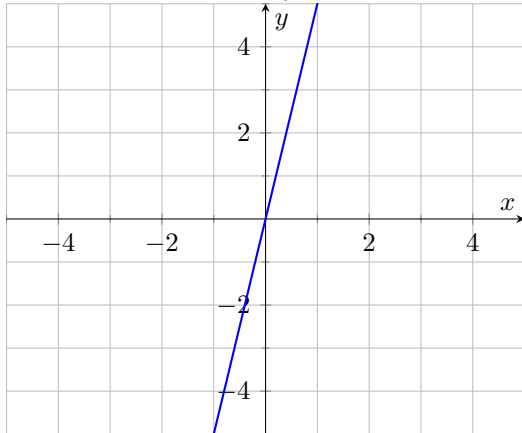
- A.  $f(x) = \frac{1}{2}x^2$
- B.  $f(x) = 2x^2$
- C.  $f(x) = 5x^2$
- D.  $f(x) = -2x^2$
- E.  $f(x) = \frac{1}{5}x^2$
- F.  $f(x) = -\frac{1}{5}x^2$
- G.  $f(x) = -5x^2$
- H.  $f(x) = -\frac{1}{2}x^2$

5. 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.  $f(x) = -\frac{1}{5}|x|$
- B.  $f(x) = -\frac{1}{2}|x|$
- C.  $f(x) = \frac{1}{2}|x|$
- D.  $f(x) = -2|x|$
- E.  $f(x) = -5|x|$
- F.  $f(x) = 5|x|$
- G.  $f(x) = 2|x|$
- H.  $f(x) = \frac{1}{5}|x|$

6. 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.

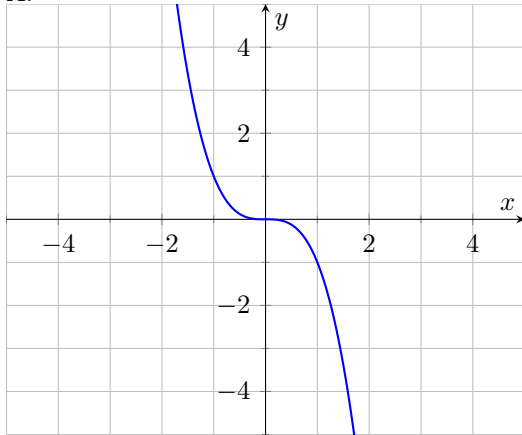


- A.  $f(x) = 5x$
- B.  $f(x) = \frac{1}{5}x$
- C.  $f(x) = \frac{1}{2}x$
- D.  $f(x) = -\frac{1}{2}x$
- E.  $f(x) = -\frac{1}{5}x$
- F.  $f(x) = 2x$
- G.  $f(x) = -2x$
- H.  $f(x) = -5x$

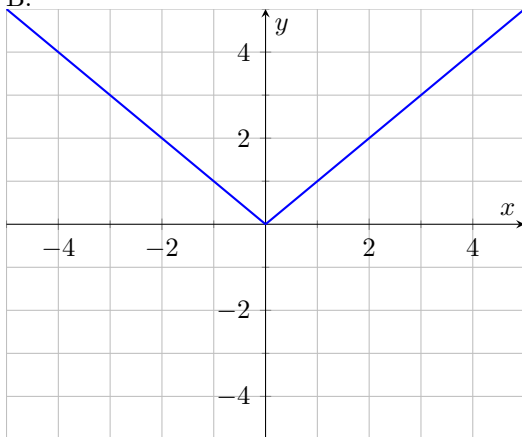
7. Match the graph to the function.

$$f(x) = x$$

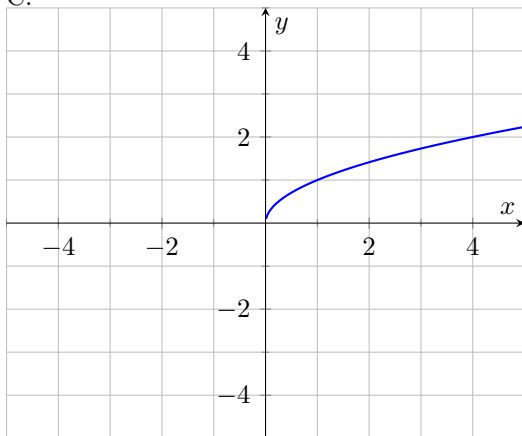
A.



B.

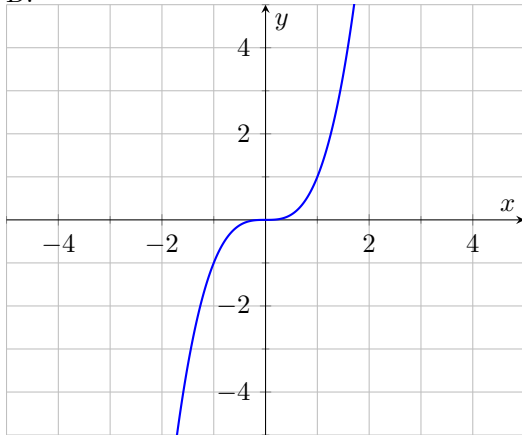


C.

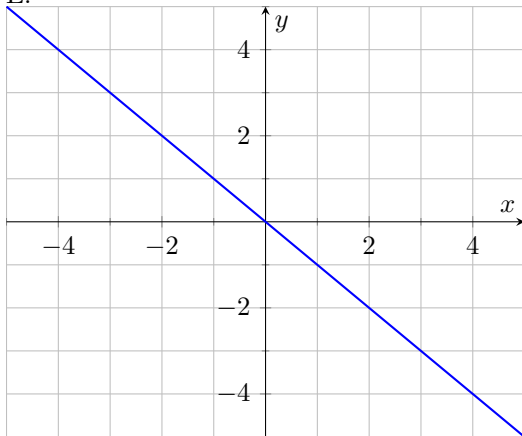




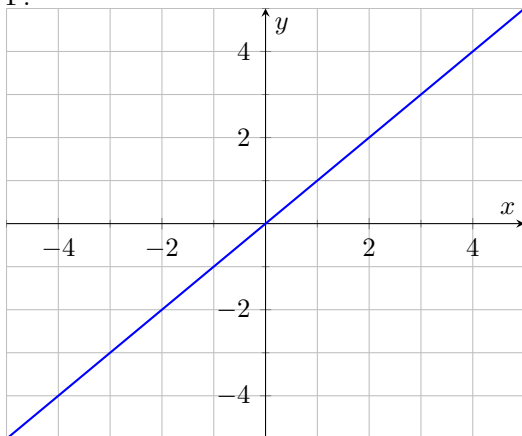
D.



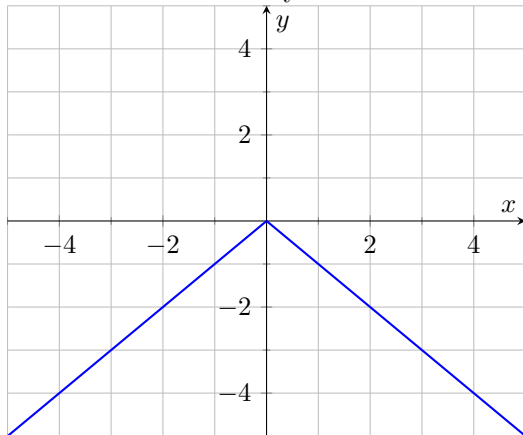
E.



F.



8. 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.  $f(x) = -x^3$

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

C.  $f(x) = -|x|$

D.  $f(x) = |x|$

E.  $f(x) = x^3$

F.  $f(x) = x$

G.  $f(x) = -x$

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