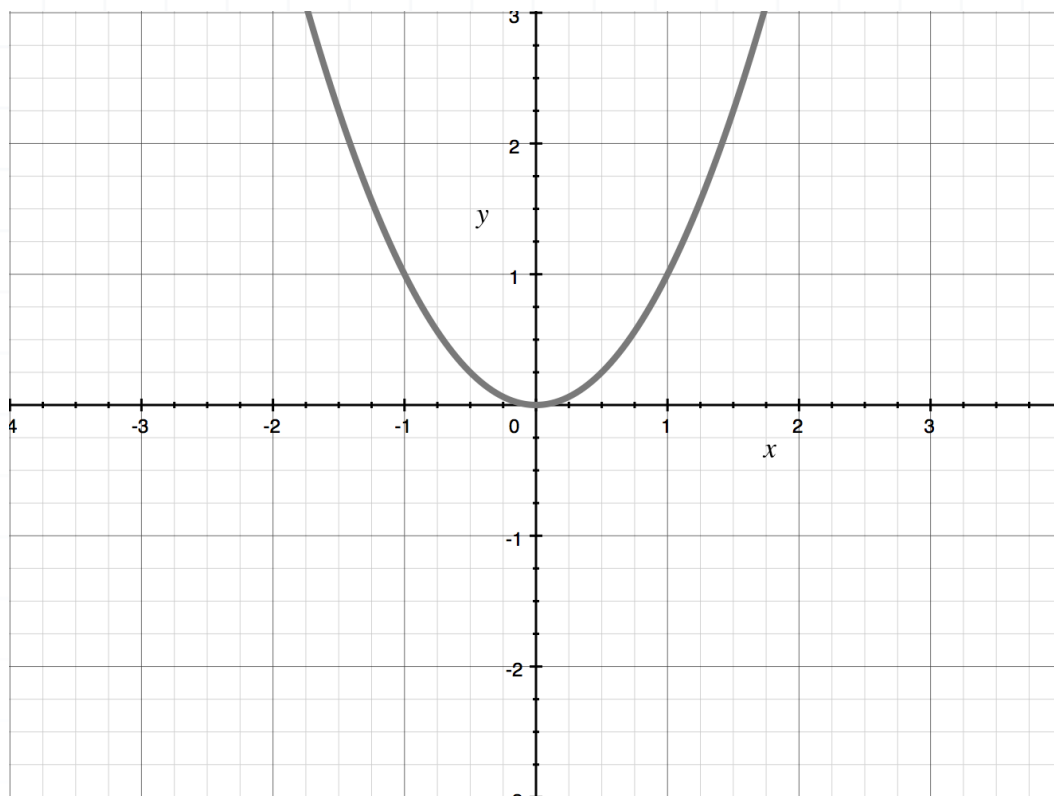


Topic: Domain and range from a graph

Question: What is the domain and range of the function? Assume the graph does not extend beyond the graph shown.

**Answer choices:**

- A $-1\frac{3}{4} \leq x \leq 1\frac{3}{4}$ $0 \leq y \leq -3$
- B $0 \leq x \leq 3$ $-1\frac{3}{4} \leq y \leq 1\frac{3}{4}$
- C $0 \leq x \leq -3$ $-1\frac{3}{4} \leq y \leq 1\frac{3}{4}$
- D $-1\frac{3}{4} \leq x \leq 1\frac{3}{4}$ $0 \leq y \leq 3$



Solution: D

To solve for the domain of the function on the graph, look at the graph from left to right. The first x -value that exists for the function is at

$$x = -1\frac{3}{4}$$

then the function continues smoothly until it ends at

$$x = 1\frac{3}{4}$$

This means the domain of the function is

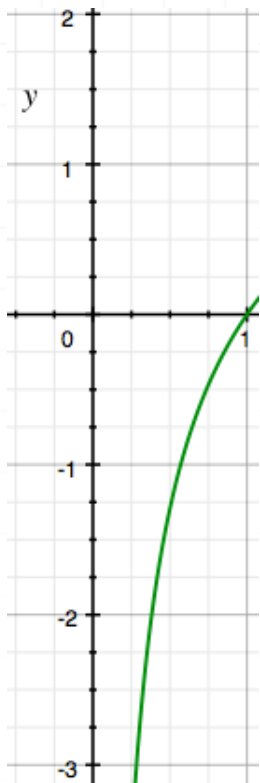
$$-1\frac{3}{4} \leq x \leq 1\frac{3}{4}$$

To solve for the range of the function on the graph, look at the graph from bottom to top. The first y -value that exists for the function is at $y = 0$, then the function continues smoothly until it ends at $y = 3$. This means the range of the function is $0 \leq y \leq 3$.



Topic: Domain and range from a graph

Question: What is the domain and range of the function? Assume the graph does not extend beyond the graph shown.



Answer choices:

- A $-3 \leq x \leq 0$ $\frac{1}{4} \leq y \leq 1$
- B $\frac{1}{4} \leq x \leq 1$ $0 \leq y \leq 3$
- C $\frac{1}{4} \leq x \leq 1$ $-3 \leq y \leq 0$
- D $0 \leq x \leq 3$ $\frac{1}{4} \leq y \leq 1$



Solution: C

To solve for the domain of the function on the graph, look at the graph from left to right. The first x -value that exists for the function is at $x = 1/4$, then the function continues smoothly until it ends at $x = 1$. This means the domain of the function is

$$\frac{1}{4} \leq x \leq 1$$

To solve for the range of the function on the graph, look at the graph from bottom to top. The first y -value that exists for the function is at $y = -3$, then the function continues smoothly until it ends at $y = 0$. This means the range of the function is $-3 \leq y \leq 0$.

