Domains and Ranges of Functions - Step-by-Step Lesson
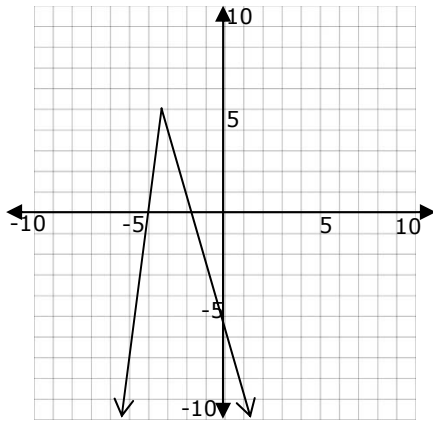
Determine the range of the function in the graph below.
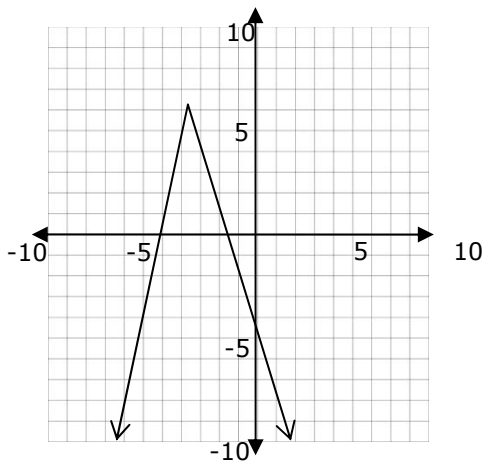

a $\{y \mid y \le 5\}$

b $\{y \mid y \ge 5\}$

c $\{$all real numbers$\}$

d $\{y \mid y < 5\}$

Explanation:

The range of a function is the set of all possible y-values.

The largest y-value on the graph appears below the vertex where y is 5. All the other points on the graph appear below the vertex, where y is less than 5.

So, the range is the set of all real numbers less than or equal to 5. This can be written as $\{y \mid y \le 5\}$.