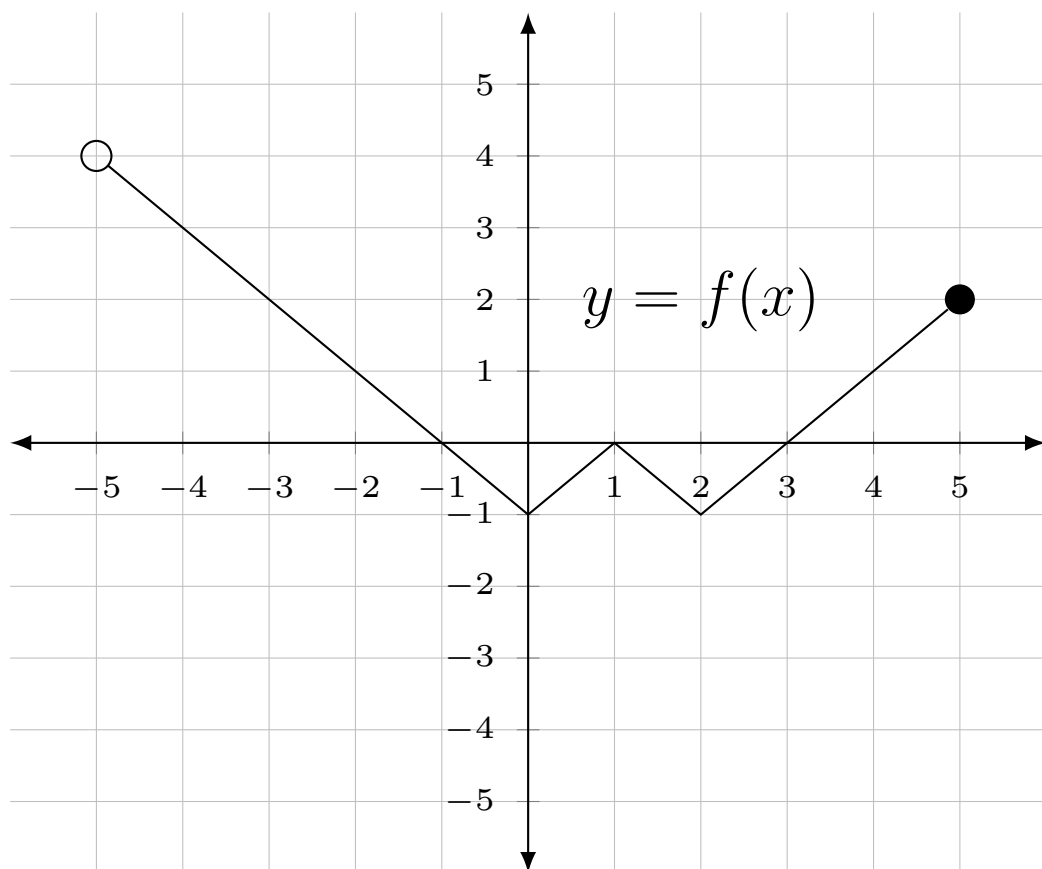


Math-19 Homework #7 Solutions

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Problems

Use the graph of $y = f(x)$ to answer the following questions:



1). What is $f(2)$?

$$f(2) = -1$$

2). What is the y-intercept?

$$(0, -1)$$

3). For what values of x is $f(x) = 0$?

$$x = -1, 1, 3$$

4). What is the domain of f , in interval notation?

$$(-5, 5]$$

- 5). What is the range of f , in interval notation?
 $[-1, 4)$
- 6). On what intervals is f increasing?
 $[0, 1]$ and $[2, 5]$
- 7). On what intervals is f decreasing?
 $(-5, 0]$ and $[1, 2]$
- 8). What are the local minima (if any)?
 $(0, -1)$ and $(2, -1)$
- 9). What are the local maxima (if any)?
 $(1, 0)$ and $(5, 2)$
- 10). What is the absolute maximum (if any)?
none.