

Exercise 33

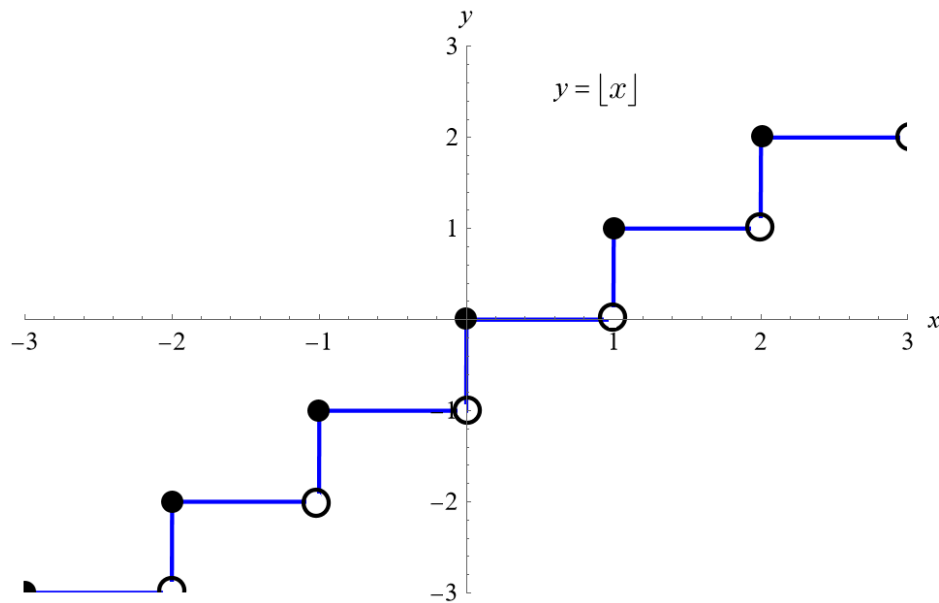
For what values of x is

a. $\lfloor x \rfloor = 0$

b. $\lceil x \rceil = 0$?

Solution

The floor function, also known as the greatest integer function, is zero for $0 \leq x < 1$ as the graph below shows.



The ceiling function, also known as the least integer function, is zero for $-1 < x \leq 0$ as the graph below shows.

