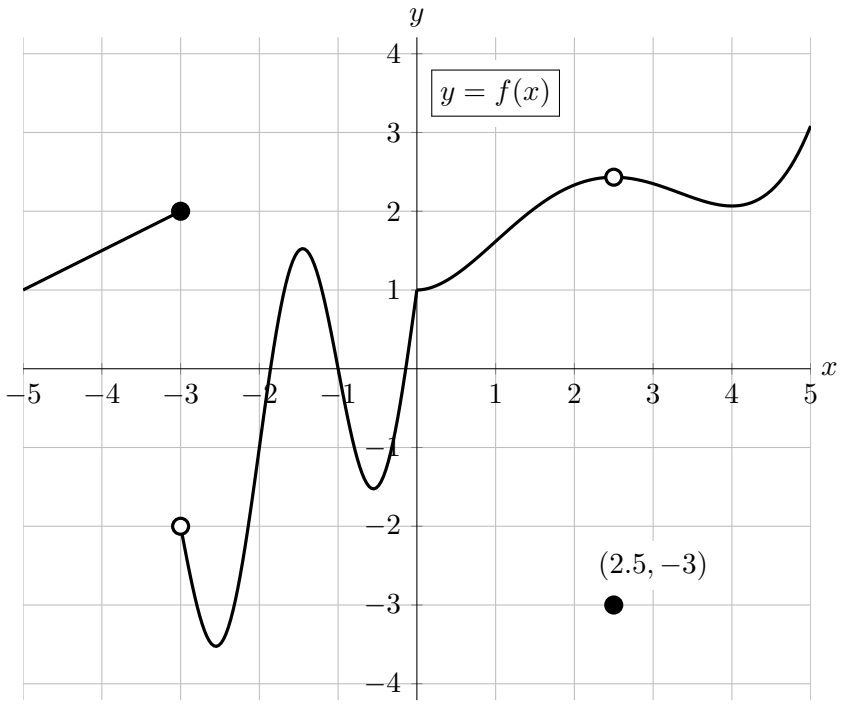
1. [9 points] A portion of the graph of a function f is shown below.



Throughout this problem, you do not need to explain your reasoning.

For each of parts **a.**– **d.** below, circle all of the listed values satisfying the given statement. If there are no such values, circle NONE.

a. [2 points] For which of the following values of c is $\lim_{x \to c^-} f(x) = f(c)$?

$c = -3$ $c = -1$ $c = 0$ $c = 1$ $c = 2.5$ NONE

b. [2 points] For which of the following values of c is $f(x)$ continuous at $x = c$?

$c = -3$ $c = -1$ $c = 0$ $c = 1$ $c = 2.5$ NONE

c. [2 points] For which of the following values of c does $f(x)$ appear to be differentiable at $x = c$?

$c = -3$ $c = -1$ $c = 0$ $c = 1$ $c = 2.5$ NONE

d. [3 points] Consider the quantities defined as follows:

I. The number 0. II. $f(1)$. III. $\int_{-1}^{1} f(x)\,dx$.

IV. The left-hand Riemann sum with 2 equal subintervals for $\int_{-1}^{1} f(x)\,dx$.

V. The right-hand Riemann sum with 2 equal subintervals for $\int_{-1}^{1} f(x)\,dx$.

Rank the quantities in order from least to greatest by filling in the blanks below with the options I–V. You do not need to show your work.

_____ < _____ < _____ < _____ < _____