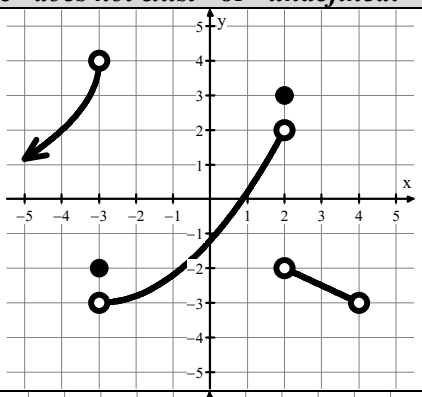
1.3 Finding Limits from Graphs

Calculus Name: _____ **CA #1**

For 1-2, give the value of each statement. If the value does not exist, write "*does not exist*" or "*undefined*."

1.

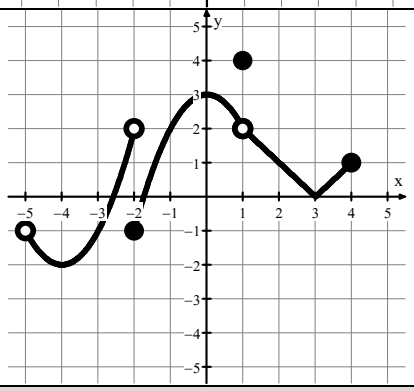


a. $\lim_{x\to 2} f(x) =$ b. $f(-3) =$ c. $\lim_{x\to -3^-} f(x) =$

d. $\lim_{x\to 2^+} f(x) =$ e. $f(2) =$ f. $\lim_{x\to 2^-} f(x) =$

g. $\lim_{x\to -3^+} f(x) =$ h. $f(4) =$ i. $\lim_{x\to -3} f(x) =$

2.

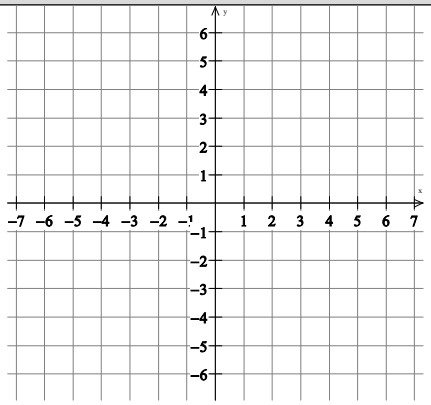


a. $\lim_{x\to 1} f(x) =$ b. $f(-2) =$ c. $\lim_{x\to -2^+} f(x) =$

d. $\lim_{x\to 2} f(x) =$ e. $f(-4) =$ f. $\lim_{x\to 1^-} f(x) =$

g. $\lim_{x\to 1^+} f(x) =$ h. $f(-5) =$ i. $f(1) =$

3. Sketch a graph of a function f that satisfies all of the following conditions.



a. $f(3) = 4$

b. $\lim_{x\to 3^-} f(x) = 2$

c. $\lim_{x\to 3^+} f(x) = -4$

d. $f(-2)$ is undefined.

e. $\lim_{x\to -2^-} f(x) > \lim_{x\to -2^+} f(x)$