

Quiz 1.4

Name _____

1.

x	1	1.9	1.99	1.999	1.9999	2.0001	2.001	2.01	2.1	3
$f(x)$	-4	-1.399	-1.040	-1.004	-1.000	6.001	6.012	6.121	7.261	25

The table above gives values of the function f at selected values of x . Which of the following conclusions is supported by the data in the table?

- (A) $\lim_{x \rightarrow 2} f(x) = -1$
- (B) $\lim_{x \rightarrow 2} f(x) = 6$
- (C) $\lim_{x \rightarrow 2^-} f(x) = -1$ and $\lim_{x \rightarrow 2^+} f(x) = 6$
- (D) $\lim_{x \rightarrow 2^-} f(x) = 6$ and $\lim_{x \rightarrow 2^+} f(x) = -1$

2.

x	5	5.9	5.99	5.999	6.001	6.01	6.1	7
$f(x)$	2	20	200	2000	-2000	-200	-20	-2

The table above gives values of a function f at selected values of x . Which of the following conclusions is supported by the data in the table?

- (A) $\lim_{x \rightarrow 6} f(x) = 0$
- (B) $\lim_{x \rightarrow 6} f(x) = 6$
- (C) $\lim_{x \rightarrow 6} f(x) = 10$
- (D) $\lim_{x \rightarrow 6} f(x)$ does not exist.

3.

x	1.9	1.99	1.999	1.9999	2.0001	2.001	2.01	2.1
$f(x)$	9.80	9.85	9.90	9.95	9.95	9.90	9.85	9.80

The table above gives values of the function f at selected values of x . Which of the following conclusions is supported by the data in the table?



Quiz 1.4

(A) $\lim_{x \rightarrow 2} f(x) = 10$

(B) $\lim_{x \rightarrow 2} f(x) = \infty$

(C) $\lim_{x \rightarrow 10} f(x) = 2$

(D) $\lim_{x \rightarrow 10} f(x) = \infty$