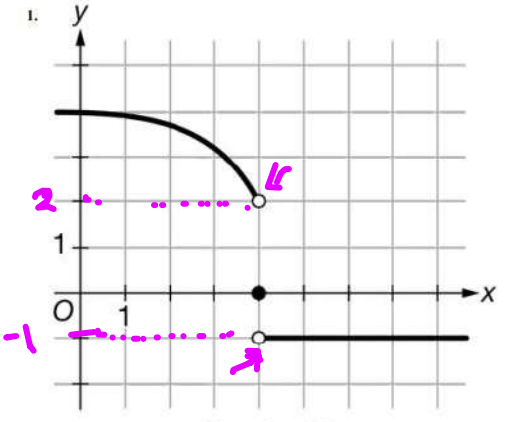
1.



Graph of h

The graph of the function h is shown above. What is $\lim_{x \to 4} h(x)$?

(A) -1

(B) 0

(C) 2

(D) nonexistent

only from right

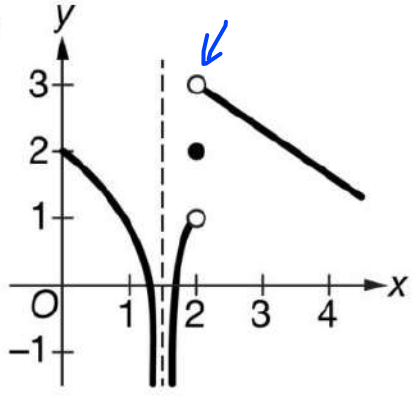
x

only from left

$\lim_{x \to 4^-} h(x) = 2$

$\lim_{x \to 4^+} h(x) = -1$

3.



Graph of f

The graph of the function f is shown above. What is $\lim_{x \to 2^+} f(x)$?

✓ (A) 3

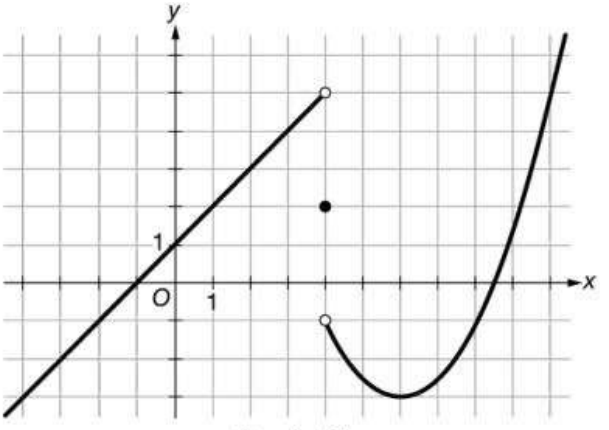
X (B) 2 exact value

X (C) 1 from the left

X (D) nonexistent asked for right

$$\lim_{x \to 2^+} f(x) = 3$$

5.



Graph of h

The graph of the function h is shown above. What is $\lim_{x \to 4} h(x)$?

X (A) -1 only from right

X (B) 2 exact

X (C) 5 only from left

(D) nonexistent

3.

x	2	2.9	2.99	2.999	3.001	3.01	3.1	4
$f(x)$	-8	-80	-800	-8000	8000	800	80	8

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) $\lim_{x \to 3} f(x) = 0$

(B) $\lim_{x \to 3} f(x) = 3$

(C) $\lim_{x \to 3} f(x) = 10$

(D) $\lim_{x \to 3} f(x)$ does not exist.

5.

x	10	10.9	10.99	10.999	11.001	11.01	11.1	12
$f(x)$	29	31.7	31.97	31.997	32.003	32.03	32.3	35

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) $\lim_{x \to 11} f(x) = 32$

(B) $\lim_{x \to 11} f(x) = \infty$

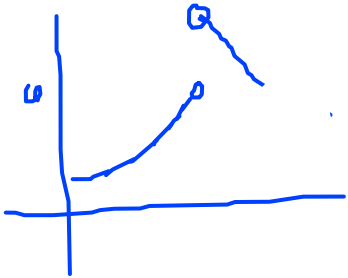
(C) $\lim_{x \to 32} f(x) = 11$

(D) $\lim_{x \to 32} f(x) = \infty$

7.

x	3.9	3.99	3.999	3.9999	4.0001	4.001	4.01	4.1
$f(x)$	5.8	5.85	5.9	5.95	6.999	6.99	6.9	6

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



(A) $\lim_{x \to 4} f(x) = 6$

(B) $\lim_{x \to 4} f(x) = 7$

(C) $\lim_{x \to 4^-} f(x) = 6$ and $\lim_{x \to 4^+} f(x) = 7$

(D) $\lim_{x \to 4^-} f(x) = 7$ and $\lim_{x \to 4^+} f(x) = 6$