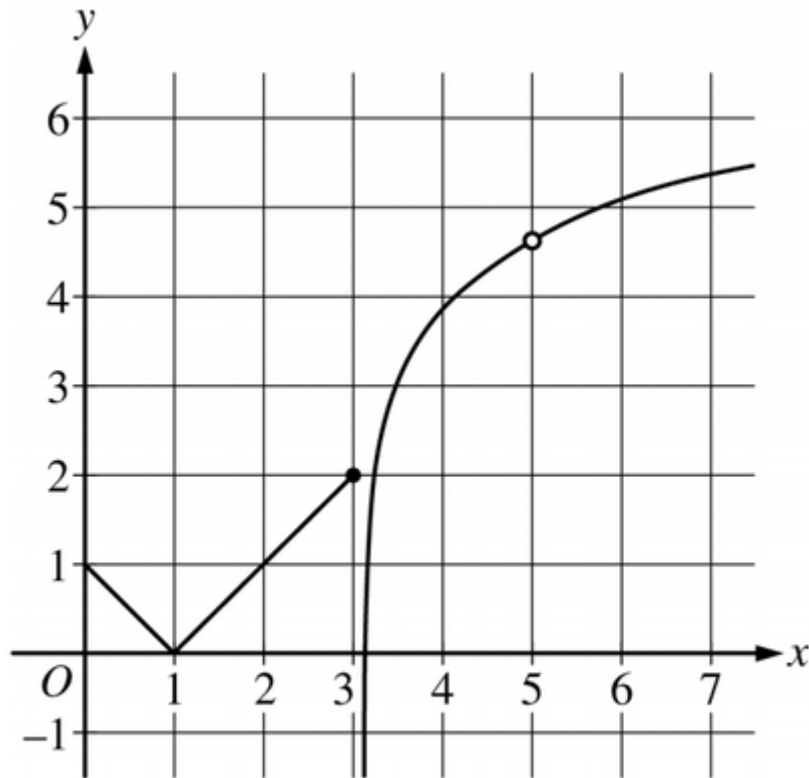


Day 1 Wrap Up Questions

Name _____

1.

Graph of f

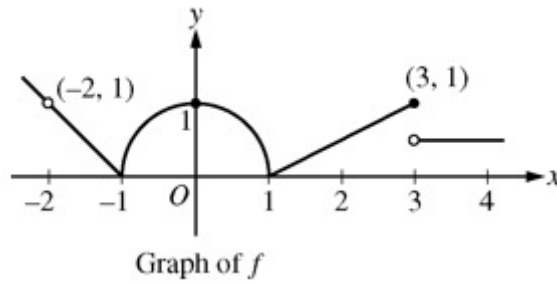
The graph of a function f is shown above. Which of the following limits does not exist?

- (A) $\lim_{x \rightarrow 1^-} f(x)$
- (B) $\lim_{x \rightarrow 1} f(x)$
- (C) $\lim_{x \rightarrow 3^-} f(x)$
- (D) $\lim_{x \rightarrow 3} f(x)$
- (E) $\lim_{x \rightarrow 5} f(x)$



Day 1 Wrap Up Questions

2.



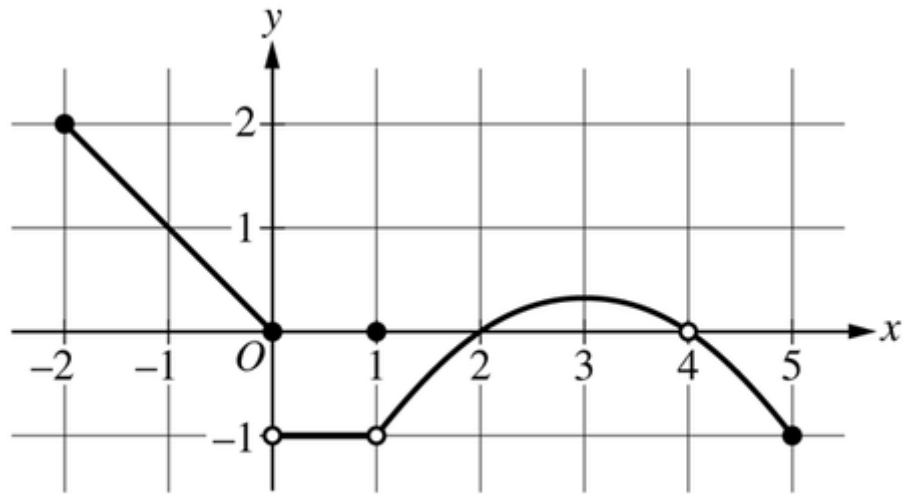
The graph of a function f is shown above. For which of the following values of c does $\lim_{x \rightarrow c} f(x) = 1$?

- (A) 0 only
- (B) 0 and 3 only
- (C) -2 and 0 only
- (D) -2 and 3 only
- (E) -2 , 0, and 3



Day 1 Wrap Up Questions

3.

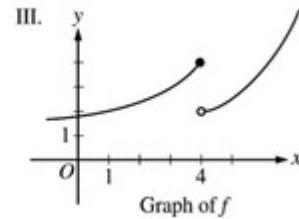
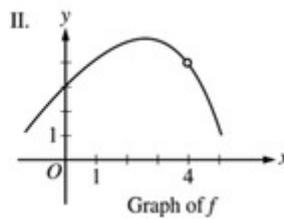
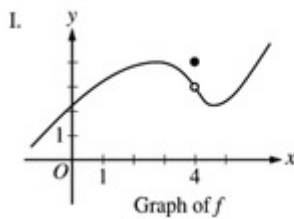


Graph of f

The graph of the function f is shown above. For what values of a does $\lim_{x \rightarrow a} f(x) = 0$?

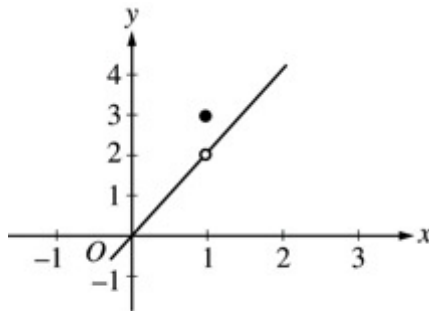
- (A) 2 only
- (B) 2 and 4
- (C) 0 and 2 only
- (D) 0, 1, and 2

4. For which of the following does $\lim_{x \rightarrow 4} f(x)$ exist?



Day 1 Wrap Up Questions

- (A) I only
- (B) II only
- (C) III only
- (D) I and II only
- (E) I and III only
-

5. Graph of f

The graph of the function f is shown in the figure above. The value of $\lim_{x \rightarrow 1} \sin(f(x))$ is

- (A) 0.909
- (B) 0.841
- (C) 0.141
- (D) -0.416
- (E) nonexistent
-



Day 1 Wrap Up Questions

6. If $a \neq 0$, then $\lim_{x \rightarrow a} \frac{x^2 - a^2}{x^4 - a^4}$ is

(A) $\frac{1}{a^2}$

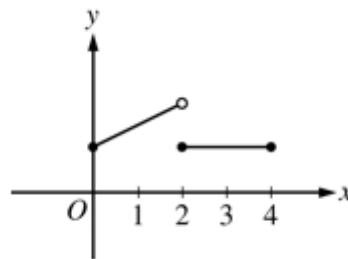
(B) $\frac{1}{2a^2}$

(C) $\frac{1}{6a^2}$

(D) 0

(E) nonexistent

7.



Graph of f

The figure above shows the graph of a function f with domain $0 \leq x \leq 4$. Which of the following statements are true?

I. $\lim_{x \rightarrow 2^-} f(x)$ exists.

II. $\lim_{x \rightarrow 2^+} f(x)$ exists.

III. $\lim_{x \rightarrow 2} f(x)$ exists.



Day 1 Wrap Up Questions

- (A) I only
- (B) II only
- (C) I and II only
- (D) I and III only
- (E) I, II, and III
-

8.

$\lim_{x \rightarrow -5} f(x) = 4$	$\lim_{x \rightarrow 5} f(x) = 2$	$\lim_{x \rightarrow 5} g(x) = 5$
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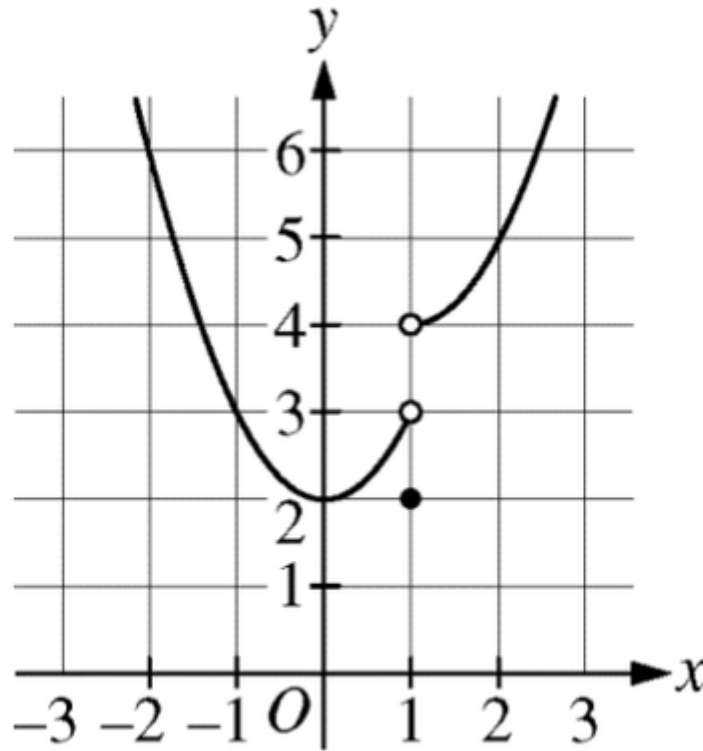
The table above gives selected limits of the functions f and g . What is $\lim_{x \rightarrow 5} (f(-x) + 3g(x))$

- (A) 19
- (B) 17
- (C) 13
- (D) 9
-



Day 1 Wrap Up Questions

9.

Graph of f

The graph of the function f is shown in the figure above. The value of $\lim_{x \rightarrow 0} f(1 - x^2)$ is

- (A) 1
- (B) 2
- (C) 3
- (D) 4
- (E) nonexistent