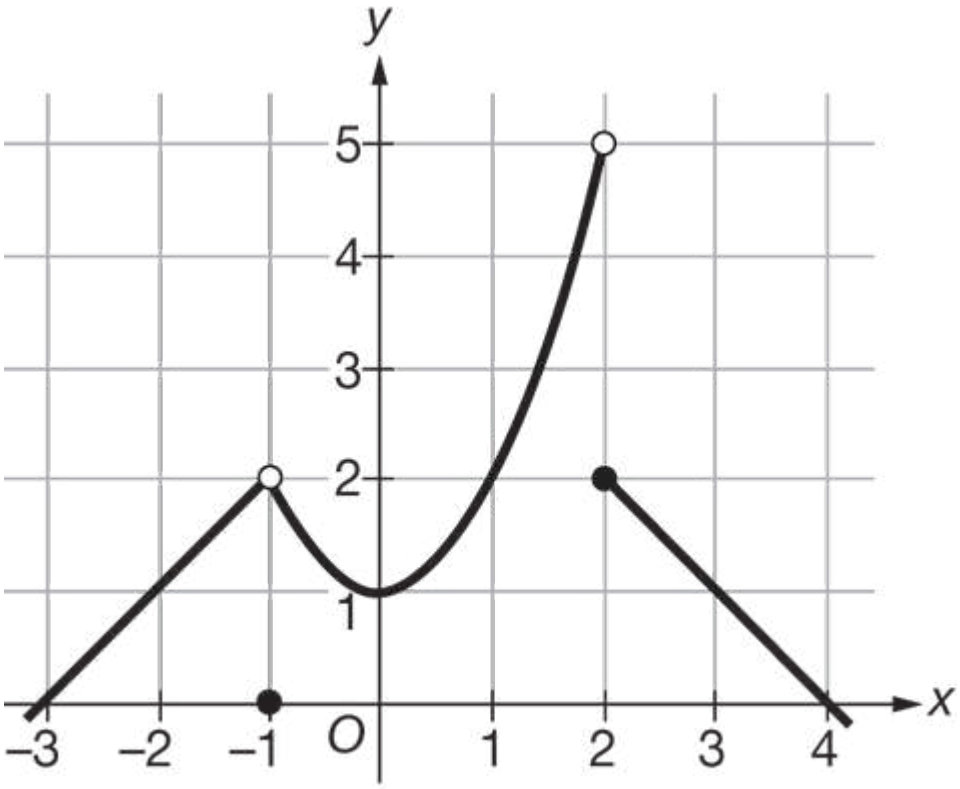
Quiz 1.5

Name

1.



Graph of f

The graph of the function f is shown above. What is $\lim_{x \to -1} f(f(x))$?

(A) 1

(B) 2

(C) 5

(D) nonexistent

2. $f(x) = \begin{cases} 5x - 3 & \text{for } x < 2 \\ 9 & \text{for } x = 2 \\ 4x + 3 & \text{for } x > 2 \end{cases}$

Let f be the piecewise function defined above. The value of $\lim_{x \to 2^+} f(x)$ is

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Quiz 1.5

A 7

B 9

C 11

D nonexistent

3.

$f(2) = 3$	$\lim_{x \to 2} f(x) = 4$
$g(2) = -6$	$\lim_{x \to 2} g(x) = -6$
$h(2) = -3$	$\lim_{x \to 2} h(x) = 2$

The table above gives selected values and limits of the functions f, g, and h. What is $\lim_{x \to 2} (h(x)(5f(x) + g(x)))$?

A -27

B -20

C 28

D 34

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