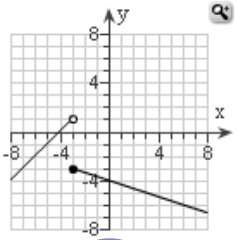
ork: HW 1.1

1 2 3 4 5 6 7 8 9 10 1.1.11

Ex. Score: 0 of 1 pt HW Score: 0% (0 of 18 pts)

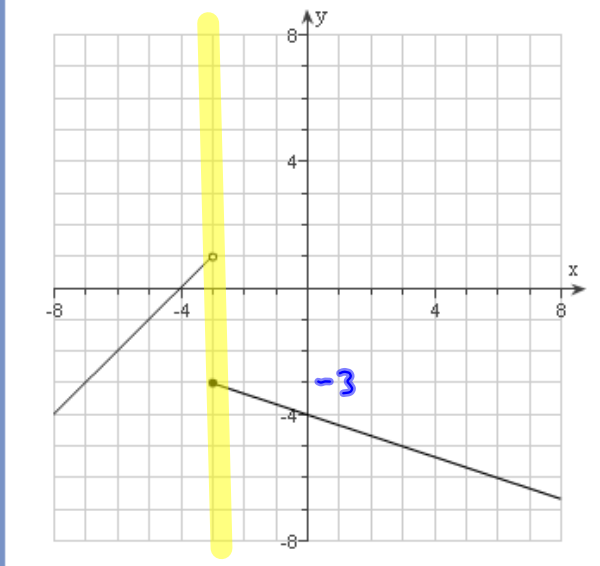
Consider the function g graphed below.

$$g(x) = \begin{cases} x+4, & \text{for } x < -3 \\ -\frac{1}{3}x - 4, & \text{for } x \geq -3 \end{cases}$$



Find $\lim_{x \to -3^+} g(x)$. = −3

Normal Medium Maximize



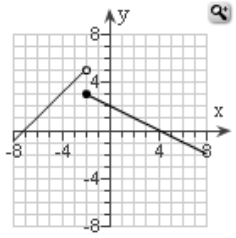
ork: HW 1.1

1 2 3 4 5 6 7 8 9 10

Ex. Score: 0 of 1 pt HW Score: 0% (0 of 18 pts)

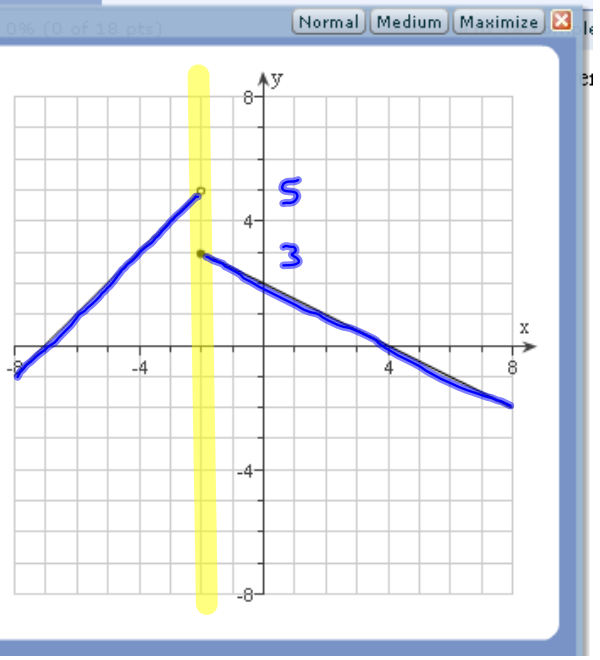
Consider the function g graphed below.

$$g(x) = \begin{cases} x+7, & \text{for } x < -2 \\ -\frac{1}{2}x + 2, & \text{for } x \geq -2 \end{cases}$$



Find $\lim_{x \to -2} g(x)$. does not exist

Normal Medium Maximize



$\lim_{x \to -2^-} g(x) = 5$ ≠ $\lim_{x \to -2^+} g(x) = 3$

ork: HW 1.1

1 2 3 4 5 6 7 8 9 10 1.1.17

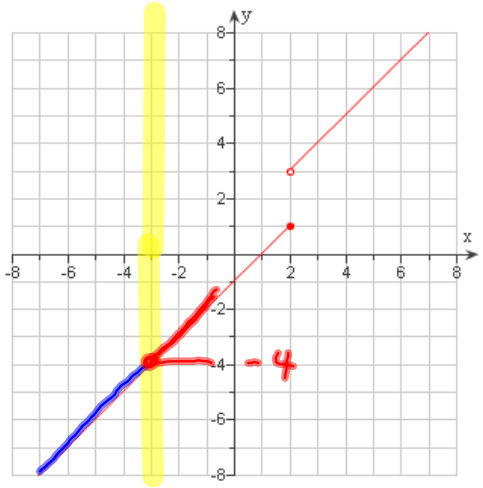
Ex. Score: 1 of 1 pt **HW Score:** 5.56% (1 of 18 pts) **1 of 18** complete

Consider the function f given to the right. Its graph is also shown to the right.

$$f(x)=\begin{cases} x-1, & \text{for } x\le 2 \\ x+1, & \text{for } x>2 \end{cases}$$

Find $\lim_{x\to -3} f(x)$. If necessary, state that the limit does not exist.

Normal Medium Maximize



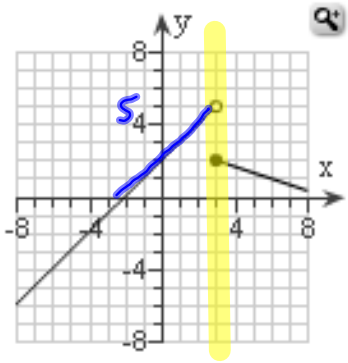
Select the correct choice below and, if necessary, fill in the answer box to complete your choice.

A. $\lim_{x\to -3} f(x) =$ [ ] -4

B. The limit does not exist.

Consider the function g graphed below.

$$g(x)=\begin{cases} x+2, & \text{for } x<3 \\ -\frac{1}{3}x+3, & \text{for } x\ge 3 \end{cases}$$



Find $\lim_{x\to 3^-} g(x)$. = 5

ork: HW 1.1

1 2 3 4 5 6 7 8 9 10

Ex. Score: 1 of 1 pt HW Score: 11.11%

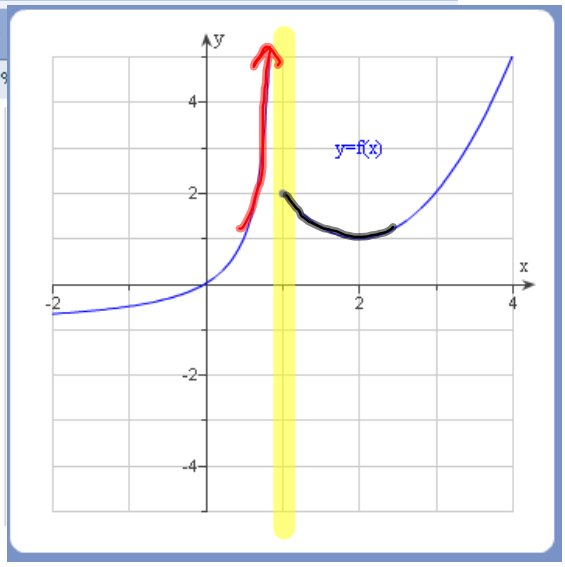
Decide from the graph whether a limit exists. If a limit exists, find its value.

$\lim_{x \to 1} f(x)$

What is the value of the limit? Select the correct choice below and fill in any answer boxes in your choice.

A. The limit is ☐.

B. The limit does not exist.



$\lim_{x \to 1^-} f(x) = \infty$ $\neq$

$\lim_{x \to 1^+} f(x) = 2$

ork: HW 1.1

1 2 3 4 5 6 7 8 9 10

Ex. Score: 0 of 1 pt HW Score: 11.11% (2 of 18 pts) 2 of 18 complete

Decide from the graph whether a limit exists. If a limit exists, find its value.

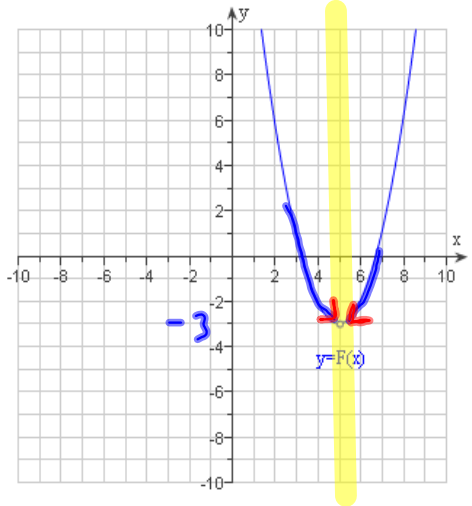
$\lim_{x \to 5} F(x)$

What is the limit? Select the correct choice below and fill in any answer boxes in your choice.

A. The limit is ☐ −3

B. The limit does not exist.

Normal Medium Maximize



Close