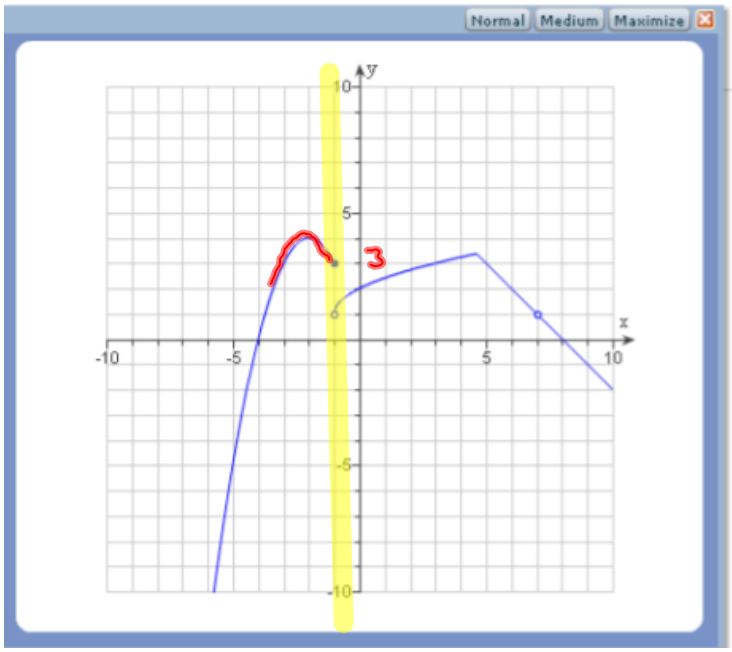
ork: HW 1.1

11 12 13 14 15 16 17 18

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

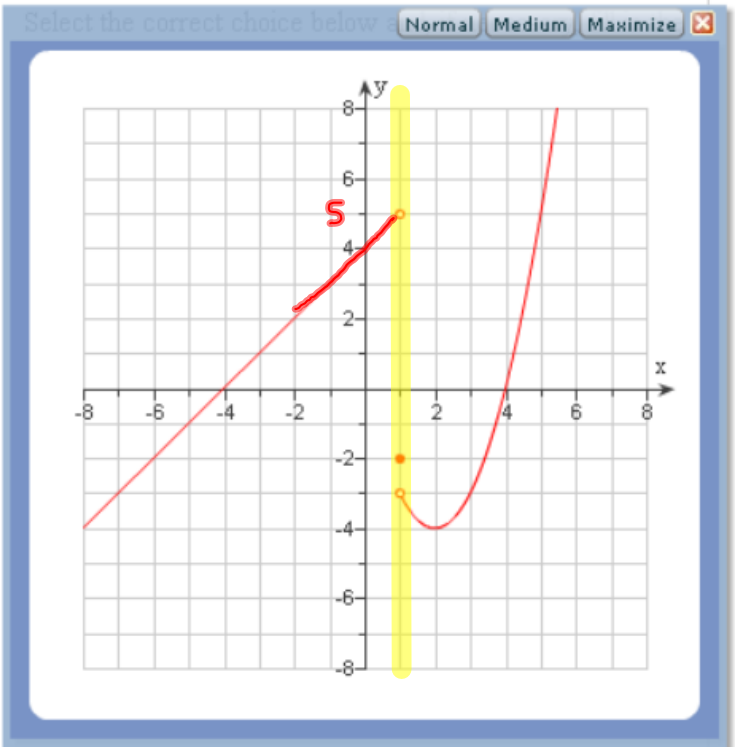
Use the graph of F, shown on the right, to find the given limit. When necessary, state that the limit does not exist.

$\lim_{x \to -1^-} F(x) = 3$



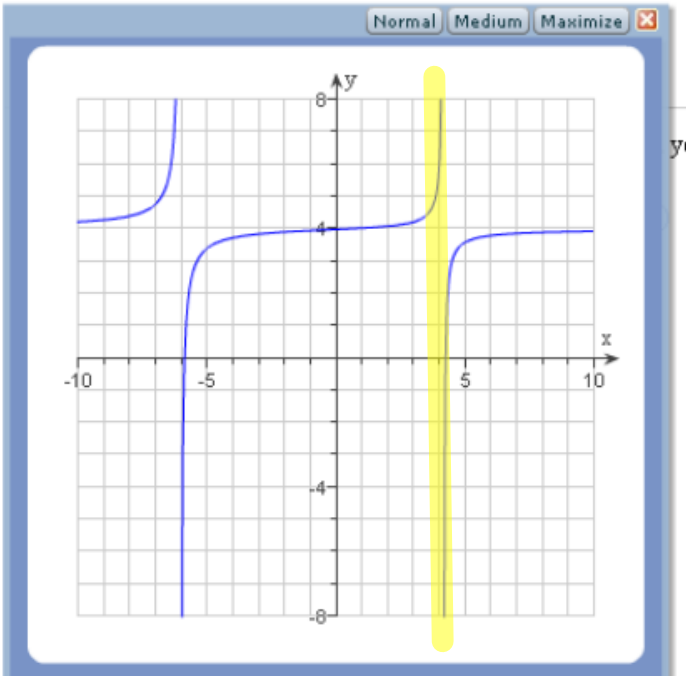
Use the graph of G shown to the right to find the limit. If necessary, state that the limit does not exist.

$\lim_{x \to 1^-} G(x) = 5$



Use the graph of f, shown on the right, to find the given limit. When necessary, state that the limit does not exist.

$\lim_{x \to 4} f(x)$



your choice.

$\lim_{x \to 4^-} f(x) = +\infty$

$\lim_{x \to 4^+} f(x) = -\infty$

$\lim_{x \to 4} f(x)$ = does not exist (dne)

Find $\lim_{x\to 8^-} f(x)$, $\lim_{x\to 8^+} f(x)$, and $\lim_{x\to 8} f(x)$ for the given function.

$$f(x)=\begin{cases} x+5 & \text{for } x\le 8 \\ 7x-48 & \text{for } x>8 \end{cases}$$

a) $\lim_{x\to 8^-} f(x) = 13$

b) $\lim_{x\to 8^+} f(x) = 8$

$13 \neq 8$

c) $\lim_{x\to 8} f(x) =$ dne

ork: HW 1.1

11 12 13 14 15 16 17 18

Ex. Score: 0 of 1 pt HW Score: 16.

Determine $\lim_{x\to c^+} f(x)$, $\lim_{x\to c^-} f(x)$, and $\lim_{x\to c} f(x)$, if it exists.

$$c=5,\ f(x)=\begin{cases} 4-x & x<5 \\ \frac{x}{5}+1 & x>5 \end{cases}$$

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