

Each problem is worth 0 points. In the event of a real quiz you would have received fair warning.

1. Let $f(x) = \frac{5}{6-x}$

(a) What is $f(6)$?

(b) What is $\lim_{x \rightarrow 6^+} f(x)$?

(c) What is $\lim_{x \rightarrow 6^-} f(x)$?

(d) What is $\lim_{x \rightarrow 6} f(x)$?

2. Let $g(x) = \frac{x}{(x+2)^2}$

(a) What is $g(-2)$?

(b) What is $\lim_{x \rightarrow -2^+} g(x)$?

(c) What is $\lim_{x \rightarrow -2^-} g(x)$?

(d) What is $\lim_{x \rightarrow -2} g(x)$?

3. Let $h(x) = \frac{x^3}{(x^2-4)}$

(a) What is $h(2)$?

(b) What is $\lim_{x \rightarrow +\infty} h(x)$?

(c) What is $\lim_{x \rightarrow 2^+} h(x)$?

(d) What is $\lim_{x \rightarrow 2^-} h(x)$?

(e) What is $\lim_{x \rightarrow 2} h(x)$?