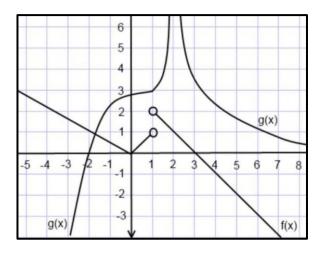
Family name:

S.r#

Q1. Use the graph below to find each limit if it exists and explain if it does not.



i. $\lim_{x\to 1^+} (f-g)$

ii. $\lim_{x \to 3^{-}} \left(\frac{2-x}{f}\right)$

iii. $\lim_{x \to 1} [g(x)]$ (Where [y] is the greatest integer less than or equal to y)

Term 171

Math 101 (47)

Quiz#1 (2.2, and 2.3)

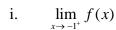
Family name:

S.r#

Q. If
$$f(x) = \begin{cases} \frac{x}{x-1} \\ \frac{1}{x+2} \end{cases}$$

, if
$$x < 2$$

Find the limit if it exists and explain if it does not.



ii. $\lim_{x \to 2^+} [4 \cdot f]$, where [y] is the greatest integer less than or equal to y.

iii.
$$\lim_{x \to 2} \frac{2 - \sqrt{6 - x}}{\sqrt{x^2 - 3} - 1}$$