

Last Name: _____

First Name: _____

Student ID: _____

Quiz 4 (B)

Question 1. (4 marks) Evaluate the following limit:

$$\lim_{x \rightarrow 1} \frac{x-1}{x^3+x^2-2x}$$

Question 2. (6 marks) Determine where the following function is continuous. Explain your answer.

$$f(x) = \begin{cases} 2x-5 & \text{if } x < 2 \\ \frac{x+1}{x^2-9} & \text{if } x \geq 2 \end{cases}$$