

Name \_\_\_\_\_  
Student I.D. \_\_\_\_\_

**Math 1210-1**  
**Quiz 2**  
**January 22, 2016**

Directions: You may ask and answer each others questions on this quiz. The goal is to understand what you're doing and express your thoughts clearly. Write your own solutions though, rather than just copying someone elses. Calculators are not allowed on this quiz. Show your work.

1) Let  $f(x)$  be defined by

$$f(x) = \frac{x + 2}{x^2 + 5x + 6}.$$

a) At which points is  $f$  discontinuous? Classify each discontinuity as removable or not removable.

(6 points)

b) Find  $\lim_{x \rightarrow \infty} f(x)$

(2 points)

c) Find  $\lim_{x \rightarrow -3^+} f(x)$ .

(2 points)