Calculus I TA/classroom:\_\_\_\_\_

.

Name:\_\_\_\_\_\_Student ID:\_\_\_\_\_\_

## Quiz 4

Oct. 31, 2007

1. (10 pts) Given function  $f(x) = \frac{1}{x}$  (for  $x \neq 0$ ), compute the f'(2) by definition  $(f'(a) = \lim_{h \to 0} \frac{f(a+h) - f(a)}{h}).$ 

2. (10 pts) Given function  $f(x) = \sqrt{x+1}$  (for  $x \ge -1$ ), compute the f'(x) by definition  $(f'(x) = \lim_{h \to 0} \frac{f(x+h) - f(x)}{h}).$