Calculus I	
TA/classroom:	

Name:\_\_\_\_\_ Student ID:\_\_\_\_\_

## Quiz 1 Oct. 3, 2007

1. (5 pts) Which of the following pairs of functions are inverse functions of each other on the implied domains?

A) $f(x) =  x , g(x) =  x $	B) $f(x) = \frac{1}{x}, g(x) = \frac{x}{1},$
C) $f(x) = \frac{1}{x}, g(x) = \frac{1}{x},$	D) $f(x) = \sqrt{x}, g(x) = x^2$ .

2. (5 pts) Which one of the lines below is parallel(平行) to the line y - 4 = 2(x - 7)?

A) 2x + y = -4, C) -x - 2y = 1, B) 2x - y = 7D) -x + 2y = 2

3. (10 pts) Find the composition  $f \circ g$  and identify the domain.  $f(x) = x^2 - 2, g(x) = \sqrt{x - 1}$ Note: You don't have to simplify the answer.

f(g(x)) =;

Domain=\_\_\_\_\_