## CS3331 Numerical Methods

## Quiz 1 Sample

## September 19, 2008

Name:	, ID:
	the following word is a single floating-point number. What is its $\Gamma$ he exponent bias of single is 127.)
	0   1000 0001   0011 0000 0000 0000 000
Please	rite your answer in the following format.
	$\pm 2^k (a_1 2^{d_1} + a_2 2^{d_2} + a_3 2^{d_3} + \ldots)$

2. What is the condition number of  $f(x) = \sqrt{x} + 1$  at x = 4?