Math 101
Quiz
February 16, 2011

Name : _____

ID# : _____

Department : _____

Section : _____

QUESTION: The following function is differentiable everywhere (The right question should be: Is the function differentiable? If yes, find a and b, if not explain why?)

$$f(x) = \begin{cases} a\,x + 2, & x < 1 \\ 3x^2 + bx + 3 & x \geq 1 \end{cases}$$

Find a and b.