Dawson College: Calculus III: 201-BZF-05 S01		November 18, 2011
	Last Name:	
	First Name:	
	Student ID:	

Quiz 9

Question 1. (5 marks) Find the maximum rate of change of $f(x) = \arctan(pqr)$ at (1,2,1) and the direction in which it occurs.

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Question 2. (5 marks) Find the local maximum and minimum values and saddle point(s) of the function $f(x) = e^y(y^2 - x^2)$.

Question 3. (5 marks) Find the dimensions of the box with volume 1000cm³ that has minimal surface area.