

Name: _____

Panther ID: _____

Quiz 4

Calculus I

Fall 2013

1. Use l'Hopital's rule to compute each of the following limits (4 pts each):

(a) $\lim_{x \rightarrow 0} \frac{\cos(7x) - \cos(3x)}{x^2}$

(b) $\lim_{x \rightarrow 1} \left(\frac{x}{x-1} - \frac{1}{\ln x} \right)$

2. (4 pts) Use an appropriate local linear approximation to evaluate without calculator $\sqrt[3]{7.94}$.