

Name: _____

Panther ID: _____

Worksheet and Quiz - 03/21/13

Calculus I

Spring 2013

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

(a) $\lim_{x \rightarrow 0} \frac{\cos(5x) - \cos(3x)}{x^2}$

(b) $\lim_{x \rightarrow +\infty} (\sqrt{x} - \ln x)$

(c) $\lim_{x \rightarrow 0^+} (1 + \sin(4x))^{\cot x}$