

Quiz #8

MATH 125 — Calculus 1

Tuesday, April 2

Please print your name:

Problem 1. (4 points) Compute $\lim_{x \rightarrow 0} \frac{1 - \cos(3x)}{x^2}$.

[Show your work!]

Problem 2. (6 points) An open box is folded from a 8 in by 3 in piece of cardboard by cutting congruent squares from the corners and bending up the sides. How large should the cutout squares be to make the box hold as much as possible?

[Show your work!]