

微積分A預習測驗 #2

09/16/2013(一)

姓名：_____ 系級：_____ 學號：_____ 分數：

Read Chapter 2 – Limits and Rates of Change (pages 71-73, 82-89) and answer the following questions.

1. We write $\lim_{x \rightarrow a} f(x) = L$ and say ; if we can make

the values of $f(x)$ to L by taking x to be to a

(on either side of a) but to a .

2. The function $f(x) = \sin x/x$ is not defined at , but we can talk about the limit

$\lim_{x \rightarrow 0} \frac{\sin x}{x}$. Can you guess its value .

3. List all 11 Limit Laws from pages 82 to 84.

4. State the squeeze theorem and use it to compute $\lim_{x \rightarrow 0} x^2 \sin \frac{1}{x}$