

微積分A預習測驗 #3

09/23/2013(一)

姓名： _____ 系級： _____ 學號： _____ 分數： _____

Read Chapter 3 – Derivatives (pages 127-128, 139-141, 154) and answer the following questions.

1. We say that a function f is at a number a if the limit exists, this limit is called the of f at a , denoted by or .

The geometric interpretation of the above limit is .

If $f(x)$ represents the location of a moving particle at time x , then the physical interpretation of the above limit is .

2. A necessary condition for differentiability is , however it is not a sufficient condition.

Can you give an example to explain this fact. .

3. List all seven differentiation rules which are summarized in the table page 154.