

# Reading Quiz 05 for Calculus A

Name : \_\_\_\_\_ Student ID # : \_\_\_\_\_ Score : \_\_\_\_\_

Read section 2 of chapter 4.

1. What are the hypotheses and conclusion of Rolle's Theorem? Are the hypotheses really necessary? Explain.
2. What are the hypotheses and conclusion of the Mean Value Theorem? What physical interpretations might the theorem have?
3. State the Mean Value Theorem's two corollaries?
4. How can you sometimes identify a function  $f(x)$  by knowing  $f'$  and knowing the value of  $f$  at a point  $x = x_0$ ? Give example.