AP Calculus AB Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Lessons 3-3 & 4-4:*Rules for Differentiation, Part 1* (Extension) Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Let *u* and *v* be differentiable functions. If and , find *u* and *v.*

2. Which of the following could be true if 

 I. 

 II. 

 III. 

1. I and II only (B) I and III (C) I only

(D) III only (E) I, II, and III

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3. If, verify that .

4. Use the following table to answer the below questions: