AP Calculus AB

**Chapters 3 & 4 Assignment Sheet**

***Derivatives***

**Lessons & Assignments Due Date**

*Lesson 3-1: Derivative of a Function*

pp. 107 – 110 / 4, 5\*, 6, 7\*, 8, 17\*, 18, 26b\*, 31\*, 36\*,

37\*, 38, 42\* [Use the Power Rule!] \_\_\_\_\_\_\_\_\_

*Lesson 3-2: Differentiability*

pp. 116 – 117 / 1, 5-9 (odd)\*, 12, 13, 18\*, 20, 24\*, 26,

27\*, 32\*, 35\*, 37\*, 39\*, 40\*, 41\* \_\_\_\_\_\_\_\_\_

*Lessons 3-3 & 4-4:**Rules for Differentiation, Part 1*

pp. 126 – 127 / 5, 7\*, 16\*, 17, 21, 22\*, 23\*, 26\*, 30, 34\*,

37, 42\*, 46\*, 53\*, 54\*

p. 186 / 1, 8\*, 20\*, 30\* \_\_\_\_\_\_\_\_\_

*Lessons 3-3, 4-4, & 3-5:**Rules for Differentiation, Part 2*

pp. 147 – 148 / 1, 3, 4\*, 5\*, 7\*, 9\*, 21\*, 28\*, 29\* \_\_\_\_\_\_\_\_\_

***Quiz #1*** \_\_\_\_\_\_\_\_\_

*Lesson 4-1: Chain Rule*

pp. 160 – 161 / 1, 4\*, 5\*, 8, 14\*, 16\*, 19, 21\*, 31\*,

33\*, 34, 56c,e,f\*\*\* \_\_\_\_\_\_\_\_\_

***Quiz #2*** \_\_\_\_\_\_\_\_\_

*Lesson 4-2: Implicit Differentiation*

pp. 170 – 171 / 1, 2\*, 4\*, 5\*, 6, 7, 8\*, 11, 12\*, 16\*,

17\*, 29, 30\* \_\_\_\_\_\_\_\_\_

*Lesson 4-3: Derivatives of Inverse Functions*

pp. 178 – 179 / 2\*, 7\*, 19\*, 29\*, 38 − 40\* \_\_\_\_\_\_\_\_\_

*Lesson 4-4: Derivatives of Exponential and Logarithmic Functions*

pp. 186 - 187 / 3, 7, 10, 11\*, 13\*, 23\*, 25\*, 27\*, 29\*, 43\* \_\_\_\_\_\_\_\_\_

*Lesson 9-2:* *L’Hôpital’s Rule*

pp. 458 – 460 / 1, 2, 5, 8, 15, 16, 33, 35, 64 – 67 \_\_\_\_\_\_\_\_\_

(Do all of these.)

## Chapters 3 & 4 Test