NAME: _____

Calculus AB (AP) — 2009-2010 — Dr. Fred Kral — Bentley School Per: _____

→ FINAL REVIEW

Calculus AB (AP) Assignments: Chapter 2-5 Review

HW#	Date	Date	Book	First Page	Comments
222			2.2	97	4, 6, 19 More practice and review: limits, graphical and numerical.
232			2.3	107	12, 14 More practice and review: limits, algebraic.
273			2.7	152	47, 48, 50. More practice and review: Derivative at a point.
284			2.8	162	6, 8, 22, 38, 42. More practice and review: Derivative functions.
295			2.R	167	Additional Chapter 2 Review. Exercises 2, 10, 30, 40, 44.
344			3.4	203	8, 10, 54. More practice and review: Chain rule.
362			3.6	220	4, 30, 32, 36 More practice and review: Logarithms.
369			3.R	262	Additional Chapter 3 Review. Exercises 6, 10, 32, 70(again), 72, 73, 76, 78, 85, 89
495			4.R	347	***Review.*** Concept Check 1, 2, 3, 5, 6, 10. True-False 1, 2, 5, 7, 8[F], 9
496			4.R	348	Exercises 1, 3, 5, 17, 18, 37, 39, 41[41:Don't use algebra]. Max/min/P.I. See "Book Solutions" link above. USE TI-83
497			4.R	349	Exercises 67-71odd, 73, 74[Ans=$-\sin t-3\cos t+3t+3$]. Antiderivatives; Position. See "Book Solutions" link above.
561			5.R	408	***Review.*** Concept Check 1, 3, 4, 5 True-False 1, 3, 4[F], 6[T], 9, 13, 14[T]
562			5.R	409	Exercises 1, 5, 7, 8[Ans=$e^{pi/4}-1, 0, e^{\arctan x}$].
563			5.R	410	Exercises 9, 11, 23, 37, 41.
564			5.R	411	Exercises 43, 45, 56[Ans=29.167m, 29.5m], 57, 65, 71.
565			5.R	411	Additional Chapter 5 Review. Exercises 58, 65 [Hint: differentiate], 66, 69.

Final Exam Review Questions:
Set 2A: Circled Chapter 2 Homework questions (10)
Set 3A: Circled Chapter 3 Homework questions (9)
Set 4A: Circled Chapter 4 Homework questions (15, 6 are short)
Set 5A: Circled Chapter 5 Homework questions (19, 6 are short)
Set 2B, 3B, 4B, and 5B. Not circled HW questions. Recommended. Choose what you need to review. Do as much as you can.
I plan to put full solutions on my website.

Topics:
30% - Material for Test 1 (Ch. 2 and 3.1) and question(s) from Test 1
30% - Material for Test 2 (Ch 3, 4.1 and 4.3) and question(s) from Test 2
40% - Material since Test 2 (Ch. 4.9 and Ch. 5) and question(s) from quizzes since Test 2.

Format:
120 minutes. Not fully twice as long as Test 2. Most of you won't need the full time. Short Answer and Free Response, as usual. Calculator allowed. Some questions will ask you to show algebra. You can always cross check with the calculator. No notes. There will be no test corrections. Grading scale will take this into account. You can expect, approximately, that a 75 percent raw score will earn a 90% grade and a 50 percent raw score will earn a 70% grade. This means that there will be challenging questions on the final exam. CALCULATOR KEYSTROKES FOR TI-83/84 WILL BE GIVEN.

To memorize:
Both limit definitions of the derivative. See Textbook p. 146-147, p.154, p.157.
Formulas from Sheet #620 (blue sheet):
Derivatives: 1,2,4,5,6,3,13,7,8,B1,C,D,E,9,11,14.
Anti-derivatives: I, J, I1,I2,L,I3,I4,M,I5,I6,I9,I11,I15,T.
+ KNOW FUNDAMENTAL THEOREM OF CALCULUS, PARTS 1 & 2.