AP Calculus BC
Unit 4 Applications of derivatives Assignment Sheet
Book: Calculus 9th Ed. (Larson)   Note: Date is date of class instruction, not due date.   Mrs. Brady

Date	A#	section	Advanced differentiation
Th Sep 28	A27	3.1	Extrema on an interval Obj: Define extrema; Find the maximum and minimum of a function Pg. 169: 3-27(mult of 3), 33, 39, 54, 57-60 all (16)
F Sep 29	A28	3.2	Rolle's Theorem and the Mean Value Theorem Obj: Apply the Mean Value Theorem and Rolle's Theorem. Pg 176: 12-27 mult of 3, 29, 33, 39-48 mult of 3, 59, 60, 64, 77, 78 (17)
M Oct 2	A29	3.3	First Derivative test (FDT) Obj: Determine intervals of increasing/ decreasing; apply FDT Pg 186: 6, 12, 15, 18, 23, 30, 36, 39, 45, 62, 63, 65,67,70, 78, 91, 93 (15)
T Oct 3	A30	3.2/3.3	Theorem and FDT practice/table practice HW Finish worksheet MVT practice
W Oct 4	A31	3.4	Concavity and the second derivative test Obj: Find POI; Determine concavity intervals; apply 2nd derivative test Pg 195: 2, 6, 12, 18, 24, 30, 36, 41, 48, 51, 57, 63, 65 (13)
Th Oct 5	A32	3.2-3.4	First and second derivative practice HW: Circuit #1 on applications
F Oct 6	A33	3.6	Curve sketching: Analyze the graph of a function HW: Applications packet
M Oct 9	A34	8.7	Obj; Apply L'Hopitals' rule to evaluate a limit in indeterminate form Pg. 576: 6, 12- 60 mult of 3 (skip #18) (17)
T Oct 10	A35	3.7	Optimization Obj: Solve optimization problems Pg 223: 2bcd, 7, 9, 13, 20, 22, 29, 39 (8)
W Oct 11	A36		Flex day: More optimization and HW circuit #2.
Th Oct 12			**Applications derivatives test review**
F Oct 13	A37		**Applications of DERIVATIVES TEST** HW: AP problems

Online quizzes at
   *Online Quiz Dates DUE DATEs are Thursday Midnight!!

Quiz	Window	Due
Online Quiz 7: Related rates and parametrics	29 Sep-5 Oct	**5 Oct**
Online Quiz 8: 3.1/3.2/3.3	6-12 Oct	**12 Oct**
Online Quiz 9: 3.4/3.7/8.7	13-19 Oct	**19 Oct**