

Calculus BC Timeline 2nd semester

Chapter 8 Assignments (18 Days)

Day	Section	Topic	Problems
□1	8.2	Critical Points and Points of Inflection	Qall#1-19odd,20-23
□2	8.2	Critical Points and Points of Inflection	#25-43odd, 1 free response
□3	8.3	Maxima and Minima in Plane and Solid Figures	Qall#1-11odd
□4	8.3	Maxima and Minima in Plane and Solid Figures	#15,17,23,25,31,33
□5	8.4	Area of a Plane Region	Qall#1-13all
□6	8.4	Area of a Plane Region	#15-24all
□7	8.5	Volume of a Solid by Plane Slicing	Qall#1-4all
□8	8.5	Volume of a Solid by Plane Slicing	#5-10all
□9	8.5	Volume of a Solid by Plane Slicing	##12-16all
□10	8.5	Volume of a Solid by Plane Slicing	##17-19all, 1free response
□11	8.6	Volume of a Solid of Revolution by Cylindrical Shells	Qall#1,3,7 +handout; "easy" due
□12	8.7	Length of a Plane Curve – Arc Length	Qall#1-15odd
□13	8.7	Length of a Plane Curve – Arc Length	17,19,25,27,31,32
□14	8.9	Lengths of Areas for Polar Coordinates	Qall#1-9odd
□15	8.9	Lengths of Areas for Polar Coordinates	11,13,18,19
□16	8.10	Chapter Review and Test Volume Project due	R0-R4; AP problems <i>handout</i> □
□17	8.10	Chapter Review and Test	T2,5-6,9
□18		TEST	sec9.1#1-7all

Chapter 9 Assignments (14 Days)

Day	Section	Topic	Problems
□1	9.2&3	Integration by Parts – A Way to Integrate Products	Qall#1-11odd
□2	9.3	Integration by Parts – Rapid Repeated IBP	Qall#1-19odd
□3	9.4	Reduction Formulas and Computer Software	Qall##1,7,13-14,16-17
□4	9.6	Integration by Trigonometric Substitution	Qall#1-11odd
□5	9.6	Integration by Trigonometric Substitution	#13-23odd
□6	9.7	Integration of Rational Functions by Partial Fractions	Qall#1-9odd, 19
□7	9.11	Miscellaneous Integrals and Derivatives	#1-31odd (eliminate any unfamiliar functions)
□8	9.8	Integration of the Inverse Trig Functions	Qall#1-5odd,8-9
□9	9.10	Improper Integrals	Qall#1-15odd
□10	9.11	Miscellaneous Integrals and Derivatives	#37-61odd (eliminate any unfamiliar functions)
□11	9.11	Miscellaneous Integrals and Derivatives	#63-99odd (eliminate any unfamiliar functions)
□12	9.12&13	Integrals in Journal; Chapter Review	sec9.12#1 sec9.13R3,4,6,7
□13	9.13	Chapter Review	R8,11,12
□14		TEST	sec10.1#1-5all

Chapter 10 Assignments (11 Days)

<i>Day</i>	<i>Section</i>	<i>Topic</i>	<i>Problems</i>
□1	10.2	Distance, Displacement, and Acceleration for Linear Motion	Qall#1-15odd
□2	10.3	Average Value Problems in Motion and Elsewhere	Qall#1-15odd
□3	10.4	Related Rates	#13,15,17,18
□4	10.5	Minimal Path Problems	Qall#1-7odd
□6	10.6	Maximum and Minimum Problems in Motion and Elsewhere	Qall#1-11odd+mult choice
□7	10.7	Vector Functions for Motion in a Plane	Qall#1-5odd
□8	10.7	Vector Functions for Motion in a Plane	#7-13odd
□9	10.8	Chapter Review	R3-R7
□11		TEST	sec11.1#1-5all

chapter 11&12 Assignments (13 Days)

<i>Day</i>	<i>Section</i>	<i>Topic</i>	<i>Problems</i>
□1	11.2	Work done by a Variable Force	Qall#1-5odd
□2	11.2	Work done by a Variable Force	#7-9all
□3	12.2	Geometric Sequences and Series as Mathematical Models	Qall#1-9odd
□4	12.3	Power Series for an Exponential Functions	Qall#1-11all
□5	12.4	Power Series for Other Elementary Functions	Qall#1-7odd
□6	12.5	Taylor and Maclaurin Series & Operations on these Series	Qall#1-9odd
□7	12.5	Taylor and Maclaurin Series & Operations on these Series	#13-29odd
□8	12.6	Interval of Convergence for a Series – The Ratio Technique	Qall#1-7odd;sec12.5#31,33
□9	12.6	Interval of Convergence for a Series – The Ratio Technique	#11-19odd;sec12.5#35-39odd
□10	12.7	Convergence of Series at the Ends of the Convergence Interval	Qall#1-6all;sec12.6#21,23
□11	12.7	Convergence of Series at the Ends of the Convergence Interval	#7-11all,14,15-20all;sec12.6#24-25
□12	12.7	Convergence of Series at the Ends of the Convergence Interval	#21-45odd
□13	12.8	Error Analysis for Series	Qall#3,7,10,13;sec12.9R0,1
□14	12.9	Chapter Review	R2-R8
□15		TEST	2002#1&2

Two Review Weeks - Keep all AP problems in your binder.

One Week Study for other AP exams

Three Weeks Pilot Kuyers Institute material: “Why Study Math?,” “Hypercubes,” etc.

Two Saturday’s to put on your calendar

□ February 25

□ April 22

These will be approximately 3 hour meetings. The second one will be used to practice taking a complete AP exam.