AP Calculus AB
Chapter 4+ Syllabus*

Day	Date	Description	Homework
1		3.6 – Optimization	• p. 262 (3-19 eoo, 25, 29, 33, 52-54 all)
2		3.6 – Optimization practice 3.7 – Linear Approximation	• More Optimization WS • Linear Approximation WS
3		4.1 – Antiderivatives and Indefinite Integration *FR 2* *4.1/4.3 Extra Practice (1-6)*	• p. 287 (11 – 31 odd, 37 – 43 odd)
4		<mark>3.6, 3.7, 4.1 Quiz</mark> 4.3 – Definite Integrals - *Geometric Interpretations*	• p. 312 (15 – 35 odd, 87, 110)
5		*4.3 – Definite Integrals – properties, total distance* *4.1/4.3 Extra Practice (7-14)*	• p. 313 (37 – 45 odd, 49, 85, 113b) • FR 3, 12, 21 (a-c)
6		4.3 – Riemann Approximations *FR 20 a&b* *4.2/4.6 Extra Practice WKST*	• Riemann Approximation WS 1 and 2
7		<mark>4.3, Riemann Approximation Quiz</mark> 4.4 - The Fundamental Theorem of Calculus *Chocolate Studded Dream Cookies WKST*	• p. 328 (5 – 37 eoo, 55 – 59 odd, 68, 115) • 21(d)
8		4.4 – The Fundamental Theorem of Calculus *4.4 WKST* *FR 13, 16, 20 c&d* *4.5 – Integration by Substitution*	• p. 329 (55 – 59 odd) • 2nd Fundamental Theorem WKST • p. 341 (9 – 23 odd)
9		4.5 – Integration by Substitution *FR 1* *FR 10, 15, 18, 19*	• p. 341 (31 – 51 odd, 57, 117, 59, 63, 71- 81 odd, 85, 95, 113, 114, 118)
10		<mark>4.4-4.5 Quiz</mark> 4.6 – The Natural Logarithmic Function: Integration *FR 7, 21 a&b*	• p. 351 (1– 21 eoo, 31 – 41 odd, 49, 51, 57, 65, 85. 106)
11		4.7 – Inverse Trigonometric Functions: Integration	• p. 359 (1 – 29 eoo, 31-41 odd)
12		<mark>4.6-4.7 Quiz</mark> Review	• Ch 3 Review FR 2ab • Ch 4 Review (FR)
13		Review	• Ch 3 Review MC 13, 15, 16, 18, 21, 27 • Ch 4 Review (MC)
14		<mark style="background:cyan">Ch 4+ Test</mark>	

*Assignments Subject to Change

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