

**Textbook : Calculus Early Transcendental, seventh Edition, Author: James Stewart.**

**ملاحظة مهمة: سوف يتم تدريس الباب السابع قبل الباب السادس**

Chapter	Section	Definitions & Theorems	Examples	HW على الطالبات	التمارين المحددة لأستاذات السيكشن
Chapter 3	<b>3.11 Hyperbolic Function</b>	Definition of the Hyperbolic functions, hyperbolic identities, derivatives, inverse hyperbolic functions, their derivatives. Tables 1-6. Figures 1-3,8-10	1-5	1-21 (odd),31-45(odd),38,42	3,11,13,17,21,37 38,39,42,43
Chapter 4	<b>4.4 Indeterminate forms and L'Hospital's Rule</b>	All Forms	1-9	7-65 (odd),8,54	8,23,31,37,43,45,47 49,53,54,63,65
	<b>4.9 Antiderivatives</b>	Definition, theorem 1, table 2	1-4,6-7	1-47 (odd)	5,9,15,29,3335,37,47

<b>Chapter 5</b>	<b>5.1 Areas and Distances</b>	The area problem: Figures 1-6,8-13. Definition 2	1		
	<b>5.2 The Definite Integral</b>	Definition 2. Note 1-3,5. Figures 1-4. Theorem 3,4. Equations 8-11. Properties 1-8.	1,4,6-8	17-20,35,39,41,42,47-50,53 59-63 (odd)	35,39,47,48,50 59-63 (odd)
	<b>5.3 The Fundamental Theorem of Calculus</b>	Equation 1,5.FTC1,FTC2 (No proofs)	2,4-9	7-43 (odd),55-59 (odd)	13,17,33,37,41,43,59
	<b>5.4 Indefinite Integrals and the Net Change Theorem</b>	Indefinite integral, table 1.Applications, equations 2,3	1-6	5-17 (odd),21-45 (odd)	17,35,37,41,43,45
	<b>5.5 The substitution Rule</b>	Equations 1-7. The substitution rule. The substitution rule for definite integral. Symmetry	1-11	7-47 (odd),53-73(odd),24,40,44,48	29,33,39,40, 43 44,45,61,67,73
<b>Chapter 7 Techniques of integration</b>	<b>7.1 Integration by Parts</b>	Equations 1,2,6	1-5	3-41 (odd),14	7,9,14,21,29,33,35,37 39,41
	<b>7.2 Trigonometric Integrals</b>	All strategy	1-9	1-49 (odd),44	9,11,13,15,17,31,33,37, 39,45,49

	<b>7.3 Trigonometric Substitution</b>	All	1-7	5-29 (odd),24	13, 19, 21, 25, 27, 29
	<b>7.4 Integration of Rational function by Partial Fractions</b>	All	1-6,8,9	7-33 (odd), 39-51	25,27,29,31,39,41,43,45 ,47,49,51
	<b>7.5 Strategy for Integration</b>	All with "Can we integrate all continuous functions?"	1-5	1-81 (odd)	19,27,39,41,43,45,47 59,65,67,69,77,79,81
	<b>7.8 Improper Integrals</b>	Type 1 and 2. Comparison Theorem.	1-10	5-39 (odd),41,49-55	15,23,35,37,39,41,49-55
<b>Chapter 6 Applications of integrals</b>	<b>6.1 Areas Between Curves</b>	Rules 2,3	1-2,5-6	1-17 (odd),21-29(odd)	9,15,21,23,27,29
	<b>6.2 Volumes</b>	Definition of volume. Disk and washer	2-6	1-17	6,8,10,13,14,15,16
<b>Chapter 8 Further Applications of Integrations</b>	<b>8.1 Arc Length</b>	Formulas 2-6	1,2,4	7-15,17,19-20,33,35	11,12,14,15,17,33
	<b>8.2 Area of a Surface of Revolution</b>	Formulas 4-8	1-3	5-16	6,9,10,13,16