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Calculus	
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,1-3 ; ,3-4	**312**
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Office Hour,	
James Stewart, Calculus, 7th Edition	

5	**1.5 Exponential Functions** **1.6 Inverse Functions and Logarithms**		5	**Key Point: Learn some exponential, inverse functions and logarithms.** **Difficulty: Be careful to compute the limit of a function.**			**&,**	
6	**2.2 The Limit of a Function** **2.3 Calculating Limits Using the Limit Laws** **2.4 The Precise Definition of a Limit**		5	**Key Point: Learn the definition of the limit and learn how to compute the limit.** **Difficulty: Using the precise definition to prove the limit.**			**&,**	
7	**2.5 Continuity** **2.6 Limits at Infinity; Horizontal Asymptotes**		5	**Key Point: Learn the definition of the continuity and some properties; Learn the definition of horizontal asymptotes.** **Difficulty: Show the continuous function on the**				

8	**2.7 Derivatives and Rates of Change** **2.8 The Derivative as a Function**		5	**Key Point: Learn the definition of derivatives.** **Difficulty: Be careful to compute the higher derivatives.**			**Quiz 1** **Exercises 2.7, 2.8**	
9	**3.1 Derivatives of Polynomials and Exponential Functions** **3.2 The Product and Quotient Rules**		5	**Key Point: Learn how to compute derivatives of polynomials and exponential functions, then get some rules of product and quotient rules.** **Difficulty: Be careful to compute the derivative functions using product and quotient rules.**			**Exercises 3.1, 3.2**	
10	**3.3 Derivatives of Trigonometric Functions** **3.4 The Chain Rule**		5	**Key Point: Learn how to compute derivatives of trigonometric functions and chain rule.** **Difficulty: Be careful to compute the derivatives of trigonometric functions and apply the chain rule.**			**Exercises 3.3, 3.4**	
11	**3.5 Implicit Differentiation**		5	**Key Point: Learn implicit differentiation and how to compute derivatives of inverse trigonometric functions.** **Difficulty: Be careful to compute derivatives of inverse trigonometric functions.**			**Exercise 3.5**	

12	**Mid-Term Test**		5	**Mid-Term Test**		**None**	**None**	**None**
13	**3.6 Derivatives of Logarithmic Functions** **3.10 Linear Approximations and Differentials**		5	**Key Point: Learn the derivative of logarithmic functions and linear approximate differentiation.** **Difficulty: Be careful to compute derivatives of logarithmic functions and the linear approximation.**			**Quiz 2** **Exercises 3.6, 3.10**	
14	**4.1 Maximum and Minimum Values** **4.2 The Mean Value Theorem**		5	**Key Point: Learn absolute maximum and minimum; local maximum and minimum; critical numbers; Learn Rolle's theorem and the mean value theorem.** **Difficulty: How to find absolute and local values of functions and apply the Rolle's theorem and mean value theorem.**			**Exercises 4.1, 4.2**	
15	**4.3 How Derivatives Affect the Shape of a Graph** **4.4 Indeterminate Forms**							

				indefinite integrals.				
18	**5.3 The Fundamental Theorem of Calculus**		5	**Key Point: Learn the fundamental theorem of calculus.** **Difficulty: Be careful to understand the fundamental theorem of calculus.**			**Exercise 5.3**	
19	**5.4 Indefinite Integrals and the Net Change Theorem**		5	**Key Point: Learn the indefinite integrals.** **Difficulty: Be careful to compute indefinite integrals.**			**Exercise 5.4**	
20	**5.5 The Substitution Rule**		5	**Key Point: Learn how to compute indefinite integrals using the substitution rule.** **Difficulty: Be careful to compute indefinite integrals.**			**Quiz 4** **Exercise 5.5**	
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