## Welcome to the First Year Social Sciences/Business Calculus Survey

**Please try to fill out the form so that it approximates your department's consensus on what should be in this course. For each item, tick one box in each of the two columns below it.**

**Please use the following interpretations:**

**• Core: topics which must be taught and take approximately 75% of the course.**

**• Additional: a list of topics which need not be taught, but a subset of them should be taught for breadth.**

**• Omit: this topic is not important; it should be left out of the analysis.**

1. Your institution is:

2. Does your institution have two Calculus courses for Business and Social Sciences, or just one?

- ◯ One
- ◯ Two

3. Comment Box

## Limits

4. Finding limits of functions graphically and numerically

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

5. Understanding the definition of the limit of a function and using the properties of limits to evaluate limits of functions

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

6. Using different analytic techniques to evaluate limits of functions

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

7. Evaluating one-sided limits

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

8. Interpreting in everyday language the meaning of a limiting value in an applied context

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

9. Recognizing unbounded behavior of functions

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

10. Determining the continuity of functions

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

11. Determining the continuity of functions on a closed interval

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

12. Using the greatest integer function to model and solve real-life problems

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

13. Using compound interest models to solve real-life problems

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

14. This is a comment box for the Limits.

## Differentiation

15. Identifying the tangent line to a graph at a point

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

16. Approximating the slopes of tangent lines to graphs at points

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

17. Using the limit definition to find the slopes of graphs at points

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

18. Using the limit definition to find the derivatives of functions

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

19. Describing the relationship between differentiability and continuity

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

20. Finding the derivatives of functions using the Constant Rule

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

21. Finding the derivatives of functions using the Power Rule

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

22. Finding the derivatives of functions using the Constant Multiple Rule

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

23. Finding the derivatives of functions using the Sum and Difference Rules

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

24. Finding the average rates of change of a function over an interval

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

25. Finding the instantaneous rate of change of a function at a point

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

26. Finding the marginal revenues, marginal costs, and marginal profits for products

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

27. Finding the derivatives of functions using the Product Rule

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

28. Finding the derivatives of functions using the Quotient Rule

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

29. Finding derivatives using the Chain Rule

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

30. Finding derivatives using the General Power Rule

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

31. Writing derivatives in simplified form

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

32. Finding higher-order derivatives

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

33. Finding and using a position function to determine the velocity and acceleration of a moving object

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

34. Finding derivatives explicitly

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

35. Finding derivatives implicitly

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

36. Using derivatives to answer questions about real-life situations

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

37. Solving related-rate problems

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

38. This is a comment box for the Differentiation.

## Applications of the Derivative

39. Testing for increasing and decreasing functions

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

40. Finding the critical numbers of functions and finding the open intervals on which functions are increasing or decreasing

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

41. Recognizing the occurrence of relative extrema of functions

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

42. Using the First-Derivative Test to find the relative extrema of functions

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

43. Finding absolute extrema of continuous functions on a closed interval

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

44. Determining the intervals on which the graphs of functions are concave upward or concave downward

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

45. Finding the points of inflection of the graphs of functions

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

46. Using the Second-Derivative Test to find the relative extrema of functions

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

47. Finding the points of diminishing returns of input-output models

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

48. Solving real-life optimization problems

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

49. Solving business and economics optimization problems

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

50. Finding the price elasticity of demand for demand functions

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

51. Recognizing basic business terms and formulas such as revenue, profit, or break-even point

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

52. Finding the vertical asymptotes of functions and find infinite limits

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

53. Finding the horizontal asymptotes of functions and find limits at infinity

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

54. Using asymptotes to answer questions about real-life situations

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

55. Analyzing the graphs of functions

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

56. Finding the differentials of functions

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

57. Using marginals in economics to approximate changes in revenue, cost, and profit

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

58. Finding the differential of a function using differentiation formulas

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

59. This is a comment box for the Applications of the Derivative.

## Exponential and Logarithmic Functions

60. Solving compound interest problems

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

61. Solving present value problems

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

62. Finding the derivatives of natural exponential functions

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

63. Using calculus to analyze the graphs of functions that involve the natural exponential function

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

64. Exploring the normal probability density function

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

65. Finding the derivatives of natural logarithmic functions

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

66. Finding the derivatives of exponential and logarithmic functions involving other bases

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

67. Using exponential growth and decay to model real-life situations

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

68. This is a comment box for the Exponential and Logarithmic Functions.

## Integration and its Applications

69. Understanding the definition of antiderivative and use indefinite integral notation for antiderivatives

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic in not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

70. Using basic integration rules to find antiderivatives

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic in not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

71. Solving differential equations of the form y'(x)=f(x), where y(0)=a

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic in not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

72. Using antiderivatives to solve real-life problems

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic in not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

73. Using the General Power Rule to find indefinite integrals

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic in not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

74. Using substitution to find indefinite integrals

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic in not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

75. Using the Exponential Rule to find indefinite integrals

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic in not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

76. Using the Log Rule to find indefinite integrals

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic in not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

77. Understanding the relationship between area and definite integrals

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic in not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

78. Evaluating definite integrals using the Fundamental Theorem of Calculus

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic in not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

79. Using definite integrals to solve marginal analysis problems

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic in not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

80. Finding the average values of functions over closed intervals

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic in not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

81. Using properties of even and odd functions to help evaluate definite integrals

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic in not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

82. Finding the amounts of annuities

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic in not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

83. Finding the areas of regions bounded by two graphs

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic in not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

84. Finding consumer and producer surpluses

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic in not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

85. Using the areas of regions bounded by two graphs to solve real-life problems

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic in not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

86. Using the Midpoint Rule to approximate definite integrals

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic in not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

87. Understanding the definite integral as the limit of a sum

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic in not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

88. This is a comment box for the Integration and its Applications.

## Techniques of Integration

89. Using integration by parts to find indefinite and definite integrals

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

90. Understanding the concept of partial fraction decomposition

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

91. Using partial fraction decomposition with linear factors to integrate rational functions

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

92. Using partial fraction decomposition with quadratic factors to integrate rational functions

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

93. Finding the present value of future income

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

94. Using integration tables to find indefinite and definite integrals

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

95. Using reduction formulas to find indefinite integrals

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

96. Using integrals to solve real-life problems

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

97. Using the Trapezoidal Rule to approximate definite integrals

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

98. Using Simpson's Rule to approximate definite integrals

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

99. Analyzing the sizes of the errors when approximating definite integrals with the Trapezoidal Rule and Simpson's Rule

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

100. Recognizing improper integrals

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

101. Evaluating improper integrals with infinite limits of integration

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

102. Using improper integrals to solve real-life problems

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

103. Finding the present value of a perpetuity

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

104. This is a comment box for the Techniques of Integration.

## Functions of Several Variables

105. Plotting points in space

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

106. Finding distances between points in space and find midpoints of line segments in space

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

107. Writing the standard forms of the equations of spheres and finding the centers and radii of spheres

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

108. Sketching the coordinate plane traces of surfaces

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

109. Sketching planes in space

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

110. Drawing planes in space with different numbers of intercepts

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

111. Classifying quadric surfaces in space

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

112. Evaluating functions of several variables

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

113. Finding the domains and ranges of functions of two variables

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

114. Reading contour maps and sketching level curves of functions of two variables

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

115. Using functions of several variables to answer questions about real-life situations

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

116. Finding the first partial derivatives of functions of two variables

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

117. Finding the slopes of surfaces in the x- and y-directions and using partial derivatives to answer questions about real-life situations

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

118. Finding the partial derivatives of functions of several variables

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

119. Finding higher-order partial derivatives

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

120. Understanding the relative extrema of functions of two variables

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

121. Using the First-Partials Test to find the relative extrema of functions of two variables

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

122. Using the Second-Partials Test to find the relative extrema of functions of two variables

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

123. Using relative extrema to answer questions about real-life situations

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

124. Understanding the Method of Lagrange Multipliers

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

125. Using Lagrange multipliers to solve constrained optimization problems

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

126. Finding the sum of the squared errors for mathematical models

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

127. Finding the least squares regression lines for data

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

128. Evaluating double integrals

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

129. Using double integrals to find the areas of regions.

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

130. Using double integrals to find the volumes of solids

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

131. Using double integrals to find the average values of real-life models

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

132. This is a comment box for the Functions of Several Variables.

## Trigonometric Functions

133. Finding derivatives of sine and cosine

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

134. Finding derivatives of tangent, cotangent, secant, and cosecant

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

135. Finding the relative extrema of trigonometric functions

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

136. Using derivatives of trigonometric functions to answer questions about real-life situations.

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

137. Learning the trigonometric integration rules that correspond directly to differentiation rules

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

138. Integrating the six basic trigonometric functions

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

139. Using trigonometric integrals to solve real-life problems

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

140. This is a comment box for the Trigonometric Functions.

## Probability and Calculus

141. Describing sample spaces for experiments

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

142. Assigning values to, and forming frequency distributions for, discrete random variables

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

143. Finding the probability distributions for discrete random variables

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

144. Finding the expected values or means of discrete random variables

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

145. Finding the variances and standard deviations of discrete random variables

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

146. Verifying continuous probability density functions and using continuous probability density functions to find probabilities

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

147. Using continuous probability density functions to answer questions about real-life situations

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

148. Finding the expected values or means of continuous probability density functions

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

149. Finding the variances and standard deviations of continuous probability density functions

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

150. Finding the medians of continuous probability density functions

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

151. Using special probability density functions to answer questions about real-life situations.

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

152. This is a comment box for the Probability and Calculus.

## Series and Taylor Polynomials

153. Listing the terms of a sequence

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

154. Determining the convergence or divergence of sequences and find the limits of convergent sequences

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

155. Finding patterns for sequences

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

156. Using sequences to answer questions about real-life situations

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

157. Writing finite sums using sigma notation

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

158. Finding the partial sums of series and determining the convergence or divergence of infinite series

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

159. Using the n-th Term Test for Divergence of an infinite series

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

160. Finding the nth partial sums of geometric series and determining the convergence or divergence of geometric series

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

161. Using geometric series to model and solve real-life problems

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

162. Determining the convergence or divergence of p-series.

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

163. Using the Ratio Test to determine whether a series converges or diverges

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

164. Recognizing power series

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

165. Finding the radii of convergence of power series.

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

166. Using Taylor's Theorem to find power series for functions

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

167. Using the basic list of power series to find power series for functions

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

168. Finding Taylor polynomials for functions

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

169. Using Taylor polynomials to determine the maximum errors of approximations and to approximate definite integrals

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

170. Using Newton's Method to approximate the zeros of functions

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

171. Understanding the situations in which Newton's Method may not converge

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

172. This is a comment box for the Series and Taylor Polynomials.

## Differential Equations

173. Finding general solutions of differential equations

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

174. Finding particular solutions of differential equations

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

175. Using separation of variables to solve differential equations

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

176. Solving first-order linear differential equations

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

177. Using differential equations to model and solve real-life problems

- [ ] This topic is taught in Calculus I.
- [ ] This topic is taught in Calculus II.
- [ ] This topic is not taught in Calculus I or II.
- [ ] This is a core topic.
- [ ] This is an additional topic.
- [ ] This topic should be omitted.

178. This is a comment box for the Differential Equations.