Welcome to the First Year Sciences 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:

Limits

2. Estimating a limit using a numerical or graphical approach

- [ ] 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.

3. Different ways that a limit can fail to exist

- [ ] 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.

4. Studying and using of the epsilon-delta definition of limit

- [ ] 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. Evaluating limits using properties of 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.

6. Developing and using a strategy for finding 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.

7. Evaluating a limit using the dividing out technique

- [ ] 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. Evaluating a limit using the rationalizing technique

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

9. Evaluating a limit using the Squeeze Theorem

- [ ] 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. 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.

11. Determining continuity at a point and continuity on an open 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. Determining one-sided limits and continuity 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.

13. Using properties of 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.

14. Understanding and using the Intermediate Value Theorem

- [ ] 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.

15. Determining limits to positive and negative 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.

16. Finding and sketching the vertical asymptotes of the graph of a 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.

17. This is a comment box for the Limits.

Differentiation

18. Finding the slope of the tangent line to a curve 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.

19. Using the limit definition to find the derivative of a 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.

20. Understanding 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.

21. Finding the derivative of a function 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.

22. Finding the derivative of a function 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.

23. Finding the derivative of a function 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.

24. Finding the derivative of a function 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.

25. Finding the derivatives of the sine function and of the cosine 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.

26. Finding the derivatives of 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.

27. Using derivatives to find rates of change

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

28. Finding the derivative of a function 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.

29. Finding the derivative of a function 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.

30. Finding the derivative of a trigonometric 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.

31. Finding a higher-order derivative of a 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.

32. Finding the derivative of a composite function 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.

33. Finding the derivative of a function 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.

34. Simplifying the derivative of a function using algebra

- [ ] 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 the derivative of a composition involving a transcendental 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.

36. Finding the derivative of a function involving the natural logarithmic 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.

37. Defining and differentiating exponential functions that have bases other than e

- [ ] 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. Interpreting in everyday language the meaning of a numerical derivative 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.

39. Distinguishing between functions written in implicit form and explicit 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.

40. Using implicit differentiation to find the derivative of a 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.

41. Finding derivatives of functions using logarithmic differentiation

- [ ] 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. Finding the derivative of an inverse 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.

43. Differentiating an inverse trigonometric 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.

44. Finding a related rate

- [ ] 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. Using related rates 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.

46. Approximating a zero of a function using Newton's Method

- [ ] 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. This is a comment box for the Differentiation.

Applications of Differentiation

48. Understanding the definition of extrema of a function on 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.

49. Understanding the definition of relative extrema of a function on an open 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.

50. Finding extrema 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.

51. Understanding and using Rolle's Theorem

- [ ] 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. Understanding and using the Mean Value Theorem

- [ ] 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. Determining intervals on which a function is 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.

54. Applying the First Derivative Test to find relative extrema of a 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.

55. Determining intervals on which a function is 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.

56. Finding any points of inflection of the graph of a 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.

57. Applying the Second Derivative Test to find relative extrema of a 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.

58. Determining (finite) 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.

59. Determining the horizontal asymptotes, if any, of the graph of a 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.

60. Determining infinite 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.

61. Analyzing and sketching the graph of a 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.

62. Solving applied minimum and maximum 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.

63. Understanding the concept of a tangent line approximation

- [ ] 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. Comparing the value of the differential, dy, with the actual change in y, Delta y

- [ ] 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. Estimating a propagated error using a differential

- [ ] 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 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.

67. This is a comment box for the Applications of Differentiation.

Integration

68. Writing the general solution of a differential equation and using indefinite integral notation for antiderivatives

- [ ] 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.

69. Using basic integration rules to find antiderivatives

- [ ] 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.

70. Finding a particular solution of a differential equation

- [ ] 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.

71. Using sigma notation to write and evaluate a sum

- [ ] 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.

72. Understanding the concept of area

- [ ] 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.

73. Approximating the area of a plane region between the curve y=f(x) and x-axis

- [ ] 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.

74. Finding the area of a plane region using 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.

75. Understanding the definition of a Riemann sum

- [ ] 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.

76. Evaluating a definite integral using 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.

77. Evaluating a definite integral using properties of 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.

78. Evaluating a definite integral using the Fundamental Theorem of Calculus

- [ ] 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.

79. Understanding and using the Mean Value Theorem for 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.

80. Finding the average value of a function over 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.

81. Understanding and using the Second Fundamental Theorem of Calculus

- [ ] 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.

82. Understanding and using the Net Change Theorem

- [ ] 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.

83. Using pattern recognition to find an indefinite integral

- [ ] 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.

84. Using a change of variables (substitution) to find an indefinite integral

- [ ] 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.

85. Using the General Power Rule for Integration to find an indefinite integral

- [ ] 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.

86. Using a change of variables to evaluate a definite integral

- [ ] 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.

87. Evaluating a definite integral involving an even or odd 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.

88. Interpreting in everyday language the meaning of a definite integral 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.

89. Approximating a definite integral using the Trapezoidal 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.

90. Approximating a definite integral using 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.

91. Analyzing the approximate errors in 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.

92. Using the Log Rule for Integration to integrate a rational 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.

93. Integration of functions whose antiderivatives involve inverse 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.

94. Using the method of completing the square to integrate a 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.

95. Reviewing the basic integration rules involving elementary 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.

96. Developing properties of hyperbolic 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.

97. Differentiation and integration of hyperbolic 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.

98. Developing properties of inverse hyperbolic 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.

99. Differentiation and integration of functions involving inverse hyperbolic 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.

100. This is a comment box for the Integration.

Differential Equations

101. Using initial conditions to find 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.

102. Using slope fields to approximate 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.

103. Using Euler's Method to approximate 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.

104. Using separation of variables to solve a simple differential equation

- [ ] 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.

105. Using exponential functions to model growth and decay in applied 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.

106. Using differential equations to model and solve applied 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.

107. Recognizing and solving differential equations that can be solved by separation of 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.

108. Solving and analyzing logistic 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.

109. Using logistic differential equations to model and solve applied 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.

110. Solving a first-order linear differential equation, and using linear differential equations to solve applied 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.

111. Analyzing predator-prey 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.

112. Analyzing competing-species 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.

113. his is a comment box for the Differential Equations.

Applications of Integration

114. Finding the area of a region between two curves using 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.

115. Finding the area of a region between intersecting curves using 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.

116. Describing integration as an accumulation process

- [ ] 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 volume of a solid of revolution using the disk method

- [ ] 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 volume of a solid of revolution using the washer method

- [ ] 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 the volume of a solid with known cross sections

- [ ] 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. Finding the volume of a solid of revolution using the shell method

- [ ] 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. Determining when to use the disk or shell method

- [ ] 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. Finding the arc length of a smooth curve

- [ ] 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. Finding the area of a surface of revolution

- [ ] 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. Finding the work done by a constant force

- [ ] 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. Finding the work done by a variable force

- [ ] 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. Understanding the definition of mass

- [ ] 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 center of mass in a one-dimensional system

- [ ] 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. Finding the center of mass in a two-dimensional system

- [ ] 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. Finding the center of mass of a planar lamina

- [ ] 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 the Theorem of Pappus to find the volume of a solid of revolution

- [ ] 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. Finding fluid pressure and fluid force

- [ ] 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 Applications of Integration.

Integration Techniques, L’Hôpital’s Rule, and Improper Integrals

133. Finding an antiderivative using integration by parts

- [ ] 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. Solving trigonometric integrals involving powers 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.

135. Solving trigonometric integrals involving powers of secant and tangent

- [ ] 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. Solving trigonometric integrals involving sine-cosine products with different angles

- [ ] 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. Using trigonometric substitution to solve an integral

- [ ] 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. Using integrals to model and solve real-life applications

- [ ] 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. 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.

140. 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.

141. 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.

142. Evaluation of indefinite integrals using a table of 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.

143. Evaluation of indefinite integrals using reduction 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.

144. Evaluation of indefinite integrals involving rational functions 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.

145. Recognizing limits that produce indeterminate forms

- [ ] 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. Applying L’Hôpital’s Rule to evaluate a limit

- [ ] 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. Evaluation of an improper integral that has an infinite limit 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.

148. Evaluation of an improper integral that has an infinite discontinuity

- [ ] 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. This is a comment box for the Integration Techniques, L'Hospital's Rule and Improper Integral.

Infinite Series

150. 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.

151. Writing a formula for the n-th term 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.

152. Determining whether a sequence 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.

153. Using properties of monotonic sequences and bounded 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.

154. Understanding the definition of a convergent 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.

155. Knowing the convergence properties 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.

156. 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.

157. Using the Integral Test to determine whether an infinite 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.

158. Knowing the convergence properties of p- and harmonic 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 Direct Comparison 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.

160. Using the Limit Comparison 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.

161. Using the Alternating Series Test to determine whether an infinite series converges

- [ ] 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. Using the Alternating Series Remainder to approximate the sum of an alternating 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. Classification of convergent series as absolutely or conditionally convergent

- [ ] 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. Rearranging an infinite series to obtain a different sum

- [ ] 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. 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.

166. Using the Root 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.

167. Applying the convergence and divergence tests for 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.

168. Finding polynomial approximations of elementary functions and compare them with the elementary 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. Finding Taylor and Maclaurin polynomial approximations of elementary 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.

170. Using the remainder of a Taylor polynomial

- [ ] 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 definition of a 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.

172. Finding the radius and interval of convergence of a 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.

173. Determining the endpoint convergence of a 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.

174. Differentiation and integration 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.

175. Finding the power series that represents a 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.

176. Constructing a power series using series operations

- [ ] 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. Finding a Taylor or Maclaurin series for a 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.

178. Finding a binomial 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.

179. Using a basic list of Taylor series to find other Taylor 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.

180. This is a comment box for the Infinite Series.

Conics, Parametric Equations, and Polar Coordinates

181. Understanding the definition of a conic section

- [ ] 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.

182. Analyzing and writing equations of parabolas using properties of parabolas

- [ ] 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.

183. Analyzing and writing equations of ellipses using properties of ellipses

- [ ] 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.

184. Analyzing and writing equations of hyperbolas using properties of hyperbolas

- [ ] 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.

185. Sketching the graph of a curve given by a set of parametric 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.

186. Eliminating the parameter in a set of parametric 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.

187. Finding a set of parametric equations to represent a curve

- [ ] 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.

188. Understanding two classic calculus problems, the tautochrone and brachistochrone 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.

189. Finding the slope of a tangent line to a curve given by a set of parametric 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.

190. Finding the arc length of a curve given by a set of parametric 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.

191. Finding the area of a surface of revolution (parametric 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.

192. Understanding the polar coordinate system

- [ ] 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.

193. Rewriting rectangular coordinates and equations in polar form and vice versa

- [ ] 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.

194. Sketching the graph of an equation given in polar 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.

195. Finding the slope of a tangent line to a polar graph

- [ ] 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.

196. Identifying several types of special polar graphs

- [ ] 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.

197. Finding the area of a region bounded by a polar graph

- [ ] 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.

198. Finding the points of intersection of two polar graphs

- [ ] 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.

199. Finding the arc length of a polar graph

- [ ] 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.

200. Finding the area of a surface of revolution (polar 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.

201. Finding the area of a surface of revolution (polar 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.

202. Analyzing and writing polar equations of conics

- [ ] 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.

203. Understanding and using Kepler’s Laws of planetary motion

- [ ] 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.

204. This is a comment box for the Conics, Parametric Equations, and Polar Coordinates.