

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

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

3. Determining one-sided limits

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

4. Different ways that a limit can fail to exist

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

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

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|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

6. Evaluating limits using properties of limits

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

7. Developing and using a strategy for finding limits

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

8. Evaluating a limit using the dividing out technique (dominating power analysis)

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|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

9. Evaluating a limit using the rationalizing technique

- | | |
|---|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in my school. | <input type="checkbox"/> This topic should be omitted. |

10. Evaluating a limit using the Squeeze Theorem

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|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

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

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

12. Determining continuity at a point and continuity on an open interval

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|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

13. Determining continuity on a closed interval

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|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

14. Using the limit properties of continuity to establish limits of function compositions and combinations

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|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

15. Demonstrating an understanding of the Intermediate Value Theorem

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|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

16. Determining end behavior of functions - algebraic and transcendental

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|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

17. Finding and sketching the vertical asymptotes of the graph of a function

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

18. This is a comment box for the Limits.

Differentiation

19. Finding the slope of the tangent line to a given function at a specified input value

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|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

20. Using the limit definition to find the derivative of a function

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|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

21. Understanding the relationship between differentiability and continuity

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

22. Finding the derivative of a function using the Constant Rule

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|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

23. Finding the derivative of a function using the Power Rule

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

24. Finding the derivative of a function using the Constant Multiple Rule

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

25. Finding the derivative of a function using the Sum and Difference Rules

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

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

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|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

27. Finding the derivatives of exponential functions

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

28. Using derivatives to find rates of change

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|---|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I and II. | <input type="checkbox"/> This topic should be omitted. |

29. Approximating derivatives from the graph

- | | |
|---|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I and II. | <input type="checkbox"/> This topic should be omitted. |

30. Finding the derivative of a function using the Product Rule

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|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

31. Finding the derivative of a function using the Quotient Rule

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|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

32. Finding the derivative of the tangent, cotangent, secant, and cosecant functions

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| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

33. Finding a higher-order derivative of a function

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| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

34. Finding the derivative of a composite function using the Chain Rule

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| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

35. Finding the derivative of a function using the General Power Rule

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|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

36. Simplifying the derivative of a function using algebra

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| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

37. Finding the derivative of a composition involving a transcendental function

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|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

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

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|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

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

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

40. Interpreting in everyday language the meaning of a numerical derivative value in an applied context

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

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

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|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

42. Using implicit differentiation to find the derivative of a function

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|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

43. Finding derivatives of functions using logarithmic differentiation

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

44. Finding the derivative of an inverse function

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

45. Differentiating an inverse trigonometric function

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

46. Applying implicit differentiation to a variable relationship to establish a relationship between their rates of change

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

47. Using related rates to solve real-life problems

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

48. Approximating a zero of a function using Newton's method

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|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

49. Demonstrating failures of Newton's method graphically and algebraically

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

50. This is a comment box for the Differentiation.

Applications of Differentiation

51. Understanding the definition of local and global extrema of a function on an interval

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

52. Understanding the definition of local extrema of a function on an open interval

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

53. Finding extrema on a closed interval

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

54. Demonstrating an understanding of the Rolle's Theorem

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

55. Demonstrating an understanding of the the Mean Value Theorem

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|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

56. Determining intervals on which a function is increasing or decreasing

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

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

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

58. Determining intervals on which a function is concave upward or concave downward

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

59. Finding any points of inflection of the graph of a function

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

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

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

61. Determining (finite) limits at infinity

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

62. Determining the horizontal asymptotes, if any, of the graph of a function

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

63. Determining infinite limits at infinity

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

64. Analyzing and sketching the graph of a function using information from the first and second derivatives

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

65. Generating an objective function and domain in an applied optimization problem

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

66. Finding the absolute max or min of a given function in an applied setting

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

67. Understanding the concept of a tangent line approximation

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

68. Comparing the value of the differential, dy , with the actual change in y , Δy

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

69. Estimating a propagated error using a differential

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

70. Finding the differential of a function using differentiation formulas

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

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

Integration

72. Interpreting an indefinite integral as an antiderivative

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

73. Using basic rules of antidifferentiation to find antiderivatives of simple functions, where no substitution is required

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

74. Solving initial value problems

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

75. Using sigma notation to write and evaluate a sum

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

76. Demonstrating an understanding of the connection between the total change of a function and the area between its derivative and the input axis

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

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

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

78. Finding the area of a plane region using limits

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

79. Understanding the definition of a Riemann sum

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

80. Evaluating a definite integral using limits

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

81. Evaluating a definite integral using properties of definite integrals

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

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

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

83. Understanding and using the Mean Value Theorem for Integrals

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

84. Finding the average value of a function over a closed interval

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

85. Understanding and using the Second Fundamental Theorem of Calculus (i.e. the second half of the Fundamental Theorem of Calculus)

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

86. Understanding and using the Net Change Theorem (Fundamental Theorem of Calculus Part II in applied context)

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

87. Approximating definite integrals given the graph (and only the graph) of a function

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

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

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

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

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

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

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

91. Evaluating a definite integral involving an even or odd function

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

92. Interpreting in everyday language the meaning of a definite integral value in an applied context

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

93. Finding position and velocity of a particle in rectilinear motion using integration

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

94. Approximating a definite integral using the Midpoint Rule

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

95. Approximating a definite integral using the Trapezoidal Rule

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

96. Approximating a definite integral using Simpson's Rule

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

97. Analyzing the approximate errors in the Trapezoidal Rule and Simpson's Rule

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

98. Using the Log Rule for Integration to integrate a rational function

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

99. Integration of functions whose antiderivatives involve arcsin, arccos, and arctan

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

100. Integration of functions whose antiderivatives involve arccsc, arcsec, and arccot

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

101. Using the method of completing the square to integrate a function

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

102. Reviewing the basic integration rules involving elementary functions

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

103. Developing properties of hyperbolic functions

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

104. Differentiation and integration of hyperbolic functions

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

105. Developing properties of inverse hyperbolic functions

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

106. Differentiation and integration of functions involving inverse hyperbolic functions

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

107. This is a comment box for the Integration.

Differential Equations

108. Checking if a function is a solutions to the given differential equation

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

109. Using initial conditions to find particular solutions of differential equations

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

110. Using slope fields to approximate solutions of differential equations

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

111. Constructing a slope field for a given differential equations

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

112. Using Euler's Method to approximate solutions of differential equations

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

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

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

114. Using exponential functions to model growth and decay in applied problems

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

115. Using differential equations to model and solve applied problems

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

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

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

117. Solving and analyzing logistic differential equations

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

118. Determining steady states and their stability

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

119. Constructing phase diagrams

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

120. Using logistic differential equations to model and solve applied problems

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

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

This topic is taught in Calculus I.

This is a core topic.

This topic is taught in Calculus II.

This is an additional topic.

This topic is not taught in Calculus I or II.

This topic should be omitted.

122. Analyzing predator-prey differential equations

This topic is taught in Calculus I.

This is a core topic.

This topic is taught in Calculus II.

This is an additional topic.

This topic is not taught in Calculus I or II.

This topic should be omitted.

123. Analyzing competing-species differential equations

This topic is taught in Calculus I.

This is a core topic.

This topic is taught in Calculus II.

This is an additional topic.

This topic is not taught in Calculus I or II.

This topic should be omitted.

124. Analyzing disease dynamics differential equations

This topic is taught in Calculus I.

This is a core topic.

This topic is taught in Calculus II.

This is an additional topic.

This topic is not taught in Calculus I or II.

This topic should be omitted.

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

Applications of Integration

126. Finding the area of a region between two curves using integration

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

127. Finding the area of a region between intersecting curves using integration

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

128. Describing integration as an accumulation process

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

129. Finding the volume of a solid of revolution using the disk method

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

130. Finding the volume of a solid of revolution using the washer method

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

131. Finding the volume of a solid with known cross sections

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

132. Finding the volume of a solid of revolution using the shell method

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

133. Determining when to use the disk or shell method

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

134. Finding the arc length of a smooth curve

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

135. Finding the area of a surface of revolution

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

136. Finding the work done by a constant force

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

137. Finding the work done by a variable force

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

138. Understanding the definition of mass

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

139. Finding the center of mass in a one-dimensional system

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|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

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

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| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

141. Finding the center of mass of a planar lamina

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| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

142. Using the Theorem of Pappus to find the volume of a solid of revolution

- | | |
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| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

143. Finding fluid pressure and fluid force

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| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

144. This is a comment box for the Applications of Integration.

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

145. Finding an antiderivative using integration by parts

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|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

146. Solving trigonometric integrals involving powers of sine and cosine

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

147. Solving trigonometric integrals involving powers of secant and tangent

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

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

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|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

149. Using trigonometric substitution to solve an integral

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| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

150. Using integrals to model and solve real-life applications

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| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

151. Understanding the concept of partial fraction decomposition

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

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

- | | |
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| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

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

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

154. Evaluation of indefinite integrals using a table of integrals

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

155. Evaluation of indefinite integrals using reduction formulas

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

156. Evaluation of indefinite integrals involving rational functions of sine and cosine

- | | |
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| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

157. Recognizing limits that produce indeterminate forms

- | | |
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| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

158. Applying L'Hôpital's Rule to evaluate a limit

This topic is taught in Calculus I.

This is a core topic.

This topic is taught in Calculus II.

This is an additional topic.

This topic is not taught in Calculus I or II.

This topic should be omitted.

159. Evaluation of an improper integral that has an infinite limit of integration

This topic is taught in Calculus I.

This is a core topic.

This topic is taught in Calculus II.

This is an additional topic.

This topic is not taught in Calculus I or II.

This topic should be omitted.

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

This topic is taught in Calculus I.

This is a core topic.

This topic is taught in Calculus II.

This is an additional topic.

This topic is not taught in Calculus I or II.

This topic should be omitted.

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

Infinite Series

162. Listing the terms of a sequence

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

163. Writing a formula for the n-th term of a sequence

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

164. Determining whether a sequence converges or diverges

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

165. Using properties of monotonic sequences and bounded sequences to show convergence

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

166. Understanding the definition of a convergent infinite series

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

167. Knowing the convergence properties of geometric series

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

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

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|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

169. Using the Integral Test to determine whether an infinite series converges or diverges

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

170. Knowing the convergence properties of p- and harmonic series

- | | |
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| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

171. Using the Direct Comparison Test to determine whether a series converges or diverges.

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|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

172. Using the Limit Comparison Test to determine whether a series converges or diverges

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| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

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

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

174. Using the Alternating Series Remainder to approximate the sum of an alternating series

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

175. Classification of convergent series as absolutely or conditionally convergent

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

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

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

177. Using the Root Test to determine whether a series converges or diverges

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

178. Applying the convergence and divergence tests for infinite series

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

179. Finding polynomial approximations of elementary functions and compare them with the elementary functions

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

180. Finding Taylor and Maclaurin polynomial approximations of elementary functions

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

181. Using the remainder of a Taylor polynomial

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

182. Understanding the definition of a power series

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

183. Finding the radius and interval of convergence of a power series

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

184. Determining the endpoint convergence of a power series

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

185. Differentiation and integration of power series

- | | |
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| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

186. Finding the power series that represents a function

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

187. Generate new power series from standard forms using algebra, substitution, differentiation, and/or integration

This topic is taught in Calculus I.

This is a core topic.

This topic is taught in Calculus II.

This is an additional topic.

This topic is not taught in Calculus I or II.

This topic should be omitted.

188. Finding a Taylor or Maclaurin series for a function

This topic is taught in Calculus I.

This is a core topic.

This topic is taught in Calculus II.

This is an additional topic.

This topic is not taught in Calculus I or II.

This topic should be omitted.

189. Finding a binomial series

This topic is taught in Calculus I.

This is a core topic.

This topic is taught in Calculus II.

This is an additional topic.

This topic is not taught in Calculus I or II.

This topic should be omitted.

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

This topic is taught in Calculus I.

This is a core topic.

This topic is taught in Calculus II.

This is an additional topic.

This topic is not taught in Calculus I or II.

This topic should be omitted.

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

Conics, Parametric Equations, and Polar Coordinates

192. Understanding the definition of a conic section

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

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

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

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

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

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

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

196. Sketching the graph of a curve given by a set of parametric equations

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

197. Eliminating the parameter in a set of parametric equations

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

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

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

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

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

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

- | | |
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| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

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

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|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

202. Finding the area of a surface of revolution (parametric form)

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

203. Understanding the polar coordinate system

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|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

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

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

205. Sketching the graph of an equation given in polar form

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

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

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|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

207. Identifying several types of special polar graphs

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|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

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

- | | |
|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

209. Finding the points of intersection of two polar graphs

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|--|--|
| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

210. Finding the arc length of a polar graph

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| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

211. Finding the area of a surface of revolution (polar form)

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| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

212. Finding the area of a surface of revolution (polar form)

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| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

213. Analyzing and writing polar equations of conics

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| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

214. Understanding and using Kepler's Laws of planetary motion

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| <input type="checkbox"/> This topic is taught in Calculus I. | <input type="checkbox"/> This is a core topic. |
| <input type="checkbox"/> This topic is taught in Calculus II. | <input type="checkbox"/> This is an additional topic. |
| <input type="checkbox"/> This topic is not taught in Calculus I or II. | <input type="checkbox"/> This topic should be omitted. |

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