W$_E^B$C$_A^L$C : Calculus 2

A Web Based, *Interactive*, *Multimedia Calculus*
by
The WebMath Group

MATH 152 at Texas A&M University – Spring 2001

Below is the syllabus for the semester. (Sections preceded by a I are from WebCalc I.)
Quizzes will be posted here after they are graded. (Dates of quizzes are already there.)
Other things may appear from time to time.

Some useful HTML links

- To download free Scientific Notebook software:

  30-day trial copy, **or**

  Viewer only (no time limit)

- HTML home page for this course. (Please check this frequently for announcements.)

Syllabus

Week   Sections

1.   1   Applications: Area
    I 34   Review FTC
2.   8   Applications: Volume
3.   10a   Applications: Work
    I 34   Average Values
    2   Integration by Parts
4.   5   Trigonometric Integrals
    7   Trigonometric Substitutions
5.   11   Partial Fractions
    ● Exam 1: Thursday 2/15
      covers: I34,1,2,5,7,8,10a
6.   3   Numerical Integration
    9   Improper Integrals
7.   13   Differential Equations and Initial Value Problems
    14   Applications of Differential Equations
    6   Applications: Arc Length and Surface Area
8.   4   Applications: Mass and Center of Mass
    10b   Applications: Fluid Force
9.   15   Sequences
    ● Exam 2: Thursday 3/22
      covers: 3,4,6,9,10b,11,13,14
10.   16   Series
    17   Convergence of Positive Series
11.   18   Convergence of General Series
    19   Power Series
12.   20   Taylor Series

      21   Applications of Power Series
13. 22   Vector Algebra, Dot Product
      22   Cross Product
14. 23   Lines and Planes
- Exam 3: Tuesday 4/24
      covers: 15,16,17,18,19,20,21,22(except cross product)
15. Final Exam: Wednesday 5/9 1:00-3:00

Quizzes

1. Quiz 1: Area 1/18
2. Quiz 2: Volume 1/23
3. Quiz 3: More Volumes 1/25
4. Quiz 4: Work 1/30
5. Quiz 5: Average Values; Integration by Parts 2/1
6. Quiz 6: Trigonometric Integrals 2/6
7. Quiz 7: Trigonometric Substitutions 2/8
8. Quiz 8: Partial Fractions 2/13
- Exam 1, Thursday 2/15
9. Quiz 9: Numerical Integration 2/20
10. Quiz 10: Improper Integrals 2/22
11. Quiz 11: Differential Equations 2/27
12. Quiz 12: DE Applications; Arc Length 3/1
13. Quiz 13: Surface Area; Mass 3/6
14. Quiz 14: Center of Mass; Fluid Force 3/8
15. Quiz 15: Sequences 3/20
- Exam 2: Thursday 3/22
16. Quiz 16: Series 3/27
17. Quiz 17: Convergence of Positive Series 3/29
18. Quiz 18: Convergence of General Series 4/3
19. Quiz 19: Power Series 4/5
20. Quiz 20: Taylor Series 4/10
21. Quiz 21: Applications of Power Series 4/12
22. Quiz 22: Vectors 4/17
23. Quiz 23: Cross Product 4/19
- Exam 3: Tuesday 4/24
24. Quiz 24: Lines and Planes 4/26