

Math 0230 Schedule and Practice Problems

Website references below are to the website accompanying our text: http://www.stewartcalculus.com/media/6_inside_topics.php. The website is used for supplementary topics that are not included in the print version of the textbook.

August 27: Integration by Substitution

ed 1: 5.5 Number 1-54 odd

ed 2: 5.5 Number 1-56 odd

August 30: Integration by Parts

ed 1: 6.1 Number 1-28 odd

ed 2: 6.1 Number 1-30 odd

September 1: Trigonometric integrals and substitution

ed 1: 6.2 Number 1-33 odd, 41-57 odd

ed 2: 6.2 Number 1-33 odd, 43-59 odd

September 3: Partial fractions

ed 1: 6.3 Number 1-39 odd

ed 2: 6.3 Number 1-39 odd

September 8: Partial fractions (cont)

September 10: Improper integrals

ed 1: 6.6 Number 5-31 odd, 41, 43, 45

ed 2: 6.6 Number 5-31 odd, 41, 43, 45

September 13: Areas between curves

ed 1: 7.1 Number 1-15 odd, 16

ed 2: 7.1 Number 1-19 odd, 18

September 15: Volumes

ed 1: 7.2 Number 1-11 odd, 21, 27

ed 2: 7.2 Number 1-11 odd, 27, 33

September 17: Volumes by cylindrical shells

ed 1: 7.3 Number 5, 6, 9, 18, 19, 20, 21, 23

ed 2: 7.3 Number 5, 6, 9, 10, 11, 12, 17, 19, 33, 34

September 20: Arc Length

ed 1: 7.4 Number 2, 3, 5, 6, 10

ed 2: 7.4 Number 2, 7, 10, 15, 17

September 22: Applications to physics and engineering (work, force)

ed 1: 7.5 Number 1, 3, 5, 7, 9, 12, 13, 15, 17, 18, 23, 25, 27, 30

ed 2: 7.6 Number 1, 3, 5, 7, 9, 12, 13, 15, 17, 18, 27, 28, 31, 34

September 24: Differential equations

ed 1: 7.6 Number 1-15 odd, 21-29

ed 2: 7.7 Number 1-15 odd, 21-29

September 27: Applications of Differential equations

ed 1: 7.6 Number 35, 37, 39, 43, 45, 46

ed 2: 7.7 Number 35, 37, 39, 43, 45, 46

September 29: Linear differential equations

[Website: Linear Differential Equations](#) Number 1-20

October 1: Review

October 4: Exam I

October 6: Homogeneous second order differential equations

[Website: Second Order Linear Differential Equations](#) Number 1-24

October 8: Inhomogeneous second order equations by undetermined coefficients

[Website: Nonhomogeneous Linear Equations](#) Number 1-22 (undetermined coefficients method only)

October 11: Oscillations

[Website: Applications of Second Order Differential Equations](#) Number 1-10

October 13: Sequences

ed1: 8.1 Number 3-36

ed2: 8.1 Number 3-40

October 18: Series

ed 1: 8.2 Number 3-29, 33, 34

ed 2: 8.2 Number 3-28, 31-34, 35-37, 43, 44

October 20: The integral and comparison tests

ed 1: 8.3 Number 2-27

ed 2: 8.3 Number 2-31

October 22: Other convergence tests

ed 1: 8.4 Number 1-18, 19-37 odd

ed 2: 8.4 Number 1-18, 19-39 odd

October 25: Other convergence tests

ed1: 8.4 Number 1-18, 19-37 odd

ed2: 8.4 Number 1-18, 19-39 odd

October 27: Power series

ed 1: 8.5 Number 3-20

ed 2: 8.5 Number 3-24

October 29: Representing functions as power series

ed 1: 8.6 Number 1-30

ed 2: 8.6 Number 1-32

November 1: Representing functions as power series (cont)**November 3: Taylor and Maclaurin series**

ed 1: 8.7 Number 1-34, 37-64

ed 2: 8.7 Number 1-34, 37-64

November 5: Taylor and Maclaurin series (cont)**November 8: Applications of Taylor polynomials**

ed 1: 8.8 Number 1-23

ed 2: 8.8 Number 1-23

November 10: Review**November 12: Exam II****November 15: Parametric curves**

ed 1: 9.1 Number 1, 3, 5, 7, 9, 10, 13, 15, 16, 17, 18, 22, 31

ed 2: 9.1 Number 1, 3, 5, 7, 9, 10, 13, 15, 16, 17, 18, 22, 31

November 17: Calculus with parametric curves

ed 1: 9.2 Number 1-15 odd, 24, 25, 28, 30, 35, 37, 40

ed 2: 9.2 Number 1-15 odd, 24, 25, 28, 30, 35, 37, 38

November 19: Polar coordinates

ed 1: 9.3 Number 1-6, 7, 9, 10, 11, 13-20, 23-29 odd, 46, 47, 51-54

ed 2: 9.3 Number 1-6, 7, 9, 10, 11, 13-20, 23-33 odd, 46, 47, 51-54

November 29: Areas and length in polar coordinates

ed 1: 9.4 Number 1-13, 15-25 odd

ed 2: 9.4 Number 1-13, 15-25 odd

December 1: Areas and length in polar coordinates

ed 1: 9.4 Number 29-38

ed 2: 9.4 Number 29-38

December 3: Functions of Several Variables

ed 1: 11.1 Number 1-11 odd, 13-35, 41-50

ed 2: 11.1 Number 1-11 odd, 13-35, 41-50

December 5: Partial Derivatives

ed 1: 11.3 Number 1-60

ed 2: 11.3 Number 1-64

December 8:
Review

December 10:
Review

TBA:
Final Exam (all day sections)