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Math 165 Spring 2009 Assignments

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Assignments January 12, 2009 - February 13, 2009

Print the pdf version of Assignments: [assign1.pdf](#)

Additional Problems and Examples Will Be Discussed in Class

Assignments through Test One [assign1.pdf](#)

- 01/12 1.1-1.2 Algebra Review and Examples: This part counts as review. Do 1.1: 1,3,5,11,16,17,21,27,29,33*,52,55,58,64; 1.2: 1,2,3,5,7,17,21,22,29*,31,33,36.
- 01/14 1.3 Lines and Examples: Do 1.3: 3,5,13,15,21,23,27,31,35*,39,41,43*,49,53,57. P37: #1, 7, 11-33 odd, 35, 39.
- 01/16 1.5 Introduction to Limits: Do 1.5: 1--6, 9,10,11,17*,18*,23,31
- 01/19 Martin Luther King, Jr., Day holiday. No classes.
- 01/21 1.6 More Limits and Continuity: Do 1.6: 1,3,7,8,17,23,24,37,43*,45,47.
- 01/23 2.1 Derivative - Average and instantaneous Rate of Change: Do 2.1: 1,3,5,7,11,19,23,29(a),31,32, 37*,39*.
- 01/26 2.2 Techniques: Do 2.2: 1-13, 19,21,25,36,33,41,49,57*,60.
- 01/28 2.3 More Techniques:: Do 2.3: 1,4,5,7,9,11,15,21,23,42,43,48*. 21,22,23,27,29.
- 01/30 2.4 Chain Rule: Do 2.4: 1,7,9,13, odd 17-35.
- 02/02 2.4 Technique and Practice: Do 2.4: 28,36,39,43*,51,57,59,61,70(a)(b)* odd.
- 02/04 2.5 Marginal Analysis: Do 2.5: 1,3,4,5,7,8,9,11*,13,16,20,25.
- 02/06 2.6 Implicit Differentiation: Do 2.6: 3,5,7,10,11,29,31,35,37. 23,31.
- 02/09 3.1 Applications - INC/DEC - Critical Numbers and Extrema: Do: 3.1: 1-8, 9,11,15,19,22,24,25,54,55,56*.
- 02/11 Review - Turn in [Special Assignment One](#)
- 02/11 Turn in [Math 165 Spring 2009: Group Members SA1](#)
- 02/13 **Hour Exam One** (covers sections 1.1-3.1) [Rooms](#)

Assignments through Test Two [assign2.pdf](#)

- 02/16 Concavity and Points of Inflection: 3.2: 1,3,5,7,9,13,17,23 odd.
- 02/18 Curve Sketching: 3.2: 27, 31, 43, 45, 49, 50; Example 3.3.6; 3.3: 1,2,3,4,5,7,9,13

02/20 More Curve Descriptions and Sketching: 3.3: 33, 34, 35, 37; 3.3: 11,13,15,17,23, 43, 45, 46, 50, 51, 57.

02/23 Optimization (Profit and Average Cost): 3.4: 1,3,5,7,9,11,17,18, 19, 20, 17-20.

02/25 Optimization (Elasticity): 3.4: 23 - 28, 39, 40, 41

02/27 Applied Optimization,: 3.5: 1,3,5,6,7,8,9*(What is the answer?), 10,11,15 18,19.

03/02 Applied Optimization: 3.5: 16,23,25,27,29,32,33,35,39.

03/04 Exponential Functions 4.1: 1-21 odd, 27, 28

03/06 Compound Interest, Present/Future Value: 4.19: 27-33, 38, 41, 44,47,49, 51, 54,55

03/09 Logarithmic Functions: 4.2: 1,2,3,5,7,9,11, 13-20, 21,24.

03/11 More Logarithmic Functions: 4.2 P314: 27,29,33,43, 45, 47, 49, 51,52,55, 57,62 odd, 33,39-45 odd.

03/13 **Hour Exam Two** (covers sections 3.1-4.2) **Rooms**

Assignments through Test Three: [assign3.pdf](#)

03/16 Differentiation: 4.3: 1-31 odd.

03/16 Derivatives and Applications: 4.3: 35,36,39,43,45,47,49,55,59,68,71.

03/20 Exponential Models: 4.4: 5,9,11,17,25,29,36.

03/20 In class: [Math 165 Ln-Exp Worksheet](#) As pdf:

Spring Break 03/23 - 03/27, 2009

03/30 Antidifferentiation: Sec 5.1: 1,3,7,11,13,19,21,31,32,35,42*,45,46,51,52,53,60

04/01 Simple Substitution: Sec 5.2: 1,3,4,5,9,37,49,50,52,60

04/03 Definite Integrals and FTC: Sec 5.3: 1,3,9,13,19,37,39,40,45,48,52

In each case, evaluate the definite integral two ways:

- Find the formula for the antiderivative F (indefinite integral) and use FTC
- Use $\text{fnInt}(y1,x,a,b)$ on your calculator for numerical integration

04/06 Average Value and Area: Sec 5.3: 43,44,,48,49,50,57,61; Sec 5.4: 1,3,18,19,35,36

04/08 Sec 5.4: 39, 40, 41, 48,56,59

04/10 Applications to Economics -- Income Streams: Sec 5.5:

1,3,7,9,11,13,21,24*,25,27*,30,31,40,41

04/13 Sec 5.5: 15, 17, 28,29,30,33, 34,35,38, Chapter 5 Checkup: 3, 7, 8,9 64,65,68

04/15 Chapter 5 Review: 66, 72, 73, 74, 79.

04/15 Special Assignment Three Spring 2009 due April 24, 2009

04/17** **Test Three ** Math 165 Test Three Rooms**

04/20 Sec 5.5: 33, 34, Chapter 5 Checkup: 3, 7, 8

04/22 Sec 7.1: 27, 28, 29, 30, 33, 34

04/24 Sec 7.2: 1 - 25 ODD, 27, 29

04/27 Sec 7.2: 40, 45, Sec 7.3: 1,2,3,4,6, 11, 12

04/29 Loose Ends

05/01 Senior Day, Review, and Course Evaluation

Math 165 Spring 2009 FINAL EXAM is on Wednesday, May 6, 2009, 6-8 pm, in Room BSB 250, on all of the course material. If you have an exam conflict with a regularly scheduled Wednesday evening class, please make arrangements with the instructor before Friday, April 24, 2009.

Special Assignments

- Special Assignment One Spring 2009 due February 11, 2009
 - Math 165 Spring 2009: Special Assignment One As pdf: 165sa109.pdf
 - Attach: 165sa1groupmembers.pdf
 - Type Special Assignment One. Suggestions for Typing: Math 165 Typing Assignments As pdf: 165type.pdf
 - Special Assignment Two Spring 2009 due March 11, 2009
 - Math 165 Spring 2009: Special Assignment Two As pdf: 165sa209.pdf
 - Attach: 165sa2groupmembers.pdf
 - Type Special Assignment Two. Suggestions for Typing: Math 165 Typing Assignments As pdf: 165type.pdf
 - Special Assignment Three Spring 2009 due April 24, 2009
 - Math 165 Spring 2009 SA3: Pricing Annuities As pdf: 165sa309.pdf
 - 165sa3groupmembers.pdf
 - Type Special Assignment Three. Suggestions for Typing (updated for integrals): Math 165 Typing Assignments As pdf: 165type.pdf
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Spring Semester 2009

January 12, M Instruction begins

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| January 12, M | Last day to cancel registration with a 100% refund of tuition and fees. |
| January 19, M | Martin Luther King, Jr., Day. No classes. |
| January 23, F | Last day to complete late registration; last day to add a course(s) or make section changes; last day to drop individual courses without receiving W (Withdrawn) grade on academic record via <i>Student Self-Service</i> . |
| February 8, Su | <u>CampusCare</u> deadline to <u>submit waiver forms</u> . |
| February 13, F | Math 165 Spring 2009 Test One |
| February 20, F | Last day for undergraduate students to use optional late drop in college office and receive grade of W on academic record. |
| March 13, F | Math 165 Spring 2009 Test Two |
| March 23–27, M–F | Spring vacation. No classes. |
| April 17, F | Math 165 Spring 2009 Test Three |
| May 1, F | Instruction ends. |
| May 6, W | Math 165 Spring 2009 Final Exam, 6 - 8 PM |
| May 9, Sa | Semester ends. |

FINAL EXAM is on Wednesday, May 6, 2009, 6-8 pm, in Room BSB 250 on all of the course material.

If you have an exam conflict with a regularly scheduled Wednesday evening class (ECON 120, ECON 121), please make arrangements with the instructor before Friday, April 24, 2009.

Exam Conflicts. The exam schedule is designed to prevent conflicts. But just in case, here is what happens if you have an exam conflict:

- For term Spring 2009 – course listed **second** in the online Schedule of Classes has precedence.
- Regularly scheduled Program PM exams have precedence over combined-section exams.
- A student with an exam conflict is responsible for arranging a makeup exam with his or her instructor.

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Please address questions or comments on the course or the web pages to the course coordinator (Prof. Jeff Lewis): jlewis@uic.edu