

MATH 099- SPRING 2011

Week Dates	Lecture	Topics & Page	Homework Assignments
Week 1 1/18 – 1/21	WORKING WITH TERMS, FACTORS, EXPONENTS, AND FRACTIONS, FINDING THE AREA BETWEEN A CURVE AND THE X-AXIS USING INTEGRATION		
	Lec 1	Pages 1-10	Homework: p.8▸ hw 1,2; p.12-13▸ all odd numbered hw exercises
	Lec 2	Pages 13-20	Homework: p.16▸ 1,3,5; p.20▸ 1,3; p.12-13▸ hw ex 4,8,12,16
	Lec 3	Pages 21-24	Homework: p.24▸ hw 25▸1,3,5; p.20-21▸ hw 2,4; p.16▸ 2,4; p.12-13▸ hw ex 2,6,10,14
	REC 1	Pages 1-8	Read, Study and write up the solutions to Illustrative Example I starting on page 1, and Sample Example 1 starting on page 6. Then work out CE (classwork exercises) 1-6 on pages 7-8.
Week 2 1/24 – 1/28	POINT SLOPE FORMULA FOR A LINE, WORKING WITH LINEAR EXPRESSIONS, FINDING THE AREA OF TRIANGLES GIVEN THEIR VERTICES USING INTEGRATION		
	Lec 4	Pages 27-30	Homework: p.30-31▸ hw 1,2,3,4
	Lec 5	Pages 31-36	Homework: p.38▸ hw ex 1-5
	Lec 6	Pages 36-40	On page 36▸ CE I, II, III; on page 39▸ CE 1,2. Homework: p.40-41▸ hw 1-4
	REC 2	Pages 26-37	page 26▸ Misc ex 1,2,5,6; p.37▸ Misc ex 2,4, and do 3 last.
Week 3 1/31- 2/4	LINES, EXPONENTS, AREAS OF TRIANGLES USING INTEGRATION AND ENCLOSURE IN A RECTANGLE WHOSE AREA IS SPLIT INTO RIGHT TRIANGLES, EXCEPT FOR THE TRIANGLE WHOSE AREA IS TO BE DETERMINED		
	Lec 7	Pages 38-40	On page 38 work hw 1 and hw 3. On page 39-40 work CE 1 and 2. Homework: p.40-41▸ 1-4; p.26▸ Misc ex 3,4,7
	Lec 8	Pages 43-52	Homework: Study and write up the solution to Illustrative Example III starting on page 43, including the check by enclosing the triangle in a rectangle. p.52▸ CE 1; p.37▸ Misc ex 5

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	Lec 9	Pages 53-57	On page 53 work CE 1, on page 57 work Misc ex 1 explaining the accompanying note. On page 55 work CE 1. Homework: p.52-53• hw 1,2; p.57• Misc problem 2; p.41• ex 5	
	REC 3	Page 42	page 42• Ex 1-7	
Week 4 2/8 – 2/11	Lec 10	STUDENT INITIATED REVIEW SESSION FOR COMMON EXAM 1		
		REVIEW FOR EXAM #1	 STUDY FOR EXAM #1	
		MIDTERM EXAM I: WEDNESDAY ~ FEBRUARY 9, 2011		
		GO OVER EXAM #1		
	THE INTERCEPT FORMULA FOR A LINE, SYSTEMS OF 2 LINEAR EQUATIONS IN TWO UNKNOWNNS AND THEIR GEOMETRIC INTERPRETATION, AREA OF A TRIANGLE USING INTEGRATION AND ENCLOSURE IN A RECTANGLE, INTRODUCTION TO LOGARITHMS			
	Lec 11	Pages 58-66	pages 58-66 up to but not including “checking the result of the computation.” Homework: p.69-70• hw 1,2 parts 1-3 only (omit part 4); p.53• CE 2; p.55• CE 1	
	Lec 12	Pages 66-69	including CE 1, and hw 1 (all 4 parts for both problems). Homework: p.70-71• CE 1, hw 1 (all parts); p.55• hw 1	
REC 4	Pages 56-57	page 57• Misc 1,2 (again); p.56• SE 1,2		
Week 5 2/14 – 2/18	EQUATIONS WITH LOGARITHMS, LOGARITHMIC RULES: LOG OF PRODUCTS , LOG OF POWERS, CHANGE OF BASE RULES			
	Lec 13	Pages 73-78	including all group study exercises. Homework: p.77• hw 1-9; p.78-79• hw 1,3,5,7; p.55• hw 2	
	Lec 14	Pages 79-85	pages 79 bottom – 85 top. Homework: p.78• hw 2,4,6,8; p.81- 82• hw ex 1,2,3; p.85• hw1,2	
	Lec 15	Pages 85 -88	including group study ex 2 on page 88. Homework: p.88-89• hw 1,2; p.82-83• hw 4,5; p.85-86• hw 3,4	

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	REC 5	Page 72	page 72▶ 1-7
Week 6 <small>2/21 – 2/25</small>	WORKING WITH RADICALS, THE DISTANCE FORMULA BETWEEN 2 POINTS IN A PLANE . INSERTION OF BRACKETS, HERON’S FORMULA FOR THE AREA OF A TRIANGLE		
	Lec 16	Pages 91-93	including classwork Exercises I and II on page 93. Homework: p.93▶ hw I, II, III; p.71▶ hw 2; p.86▶ hw5
	Lec 17	Pages 93-98	pages 93 bottom – 98. Homework: Study and Write up the solution to Illustrative Example I between pages 91-98. Include all steps and be prepared to work the entire exercise on an examination.
	Lec 18	Pages 99-103	Work all classwork exercises. Homework: p.103▶ hw1-6; p.101-102▶ hw 1-5; p. 99▶ hw 1-5
	REC 6	Page 90	page 90▶ Misc ex 1-5
Week 7 <small>2/28 – 3/4</small>	RADICALS, BRACKET INSERTION, HERON’S FORMULA, SOLVING QUADRATIC EQUATIONS BY FACTORING		
	Lec 19	Pages 103-110	Pages 103 bottom -110. Homework: Study and write up the solution to Illustrative Example II. Include all steps and be prepared to work this exercise on an examination. p.111▶ hw 1
	Lec 20	Pages 111-114	including all classwork problems on these pages. Homework: p.112▶ hw 2; p.113▶ hw 1; p.114▶ hw 1 (including step 4)
	Lec 21	Pages 119-121	Homework: p.121-122▶ hw (4n-3) for n from 1 to 8; p.113▶ hw 2
	REC 7	Pages 117-118	pages 117-118▶ All Misc. Exercises
Week 8 <small>3/7 – 3/11</small>	Lec 22	STUDENT INITIATED REVIEW SESSION FOR COMMON EXAM 2	
	▶	REVIEW FOR EXAM #2	▶ STUDY FOR EXAM #2
	▶	MIDTERM EXAM II: WEDNESDAY ~ MARCH 9, 2011	
	▶	GO OVER EXAM #2	
	NON LINEAR SYSTEMS OF TWO EQUATIONS IN TWO UNKNOWNNS		

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	Lec 23	Pages 123-128	up to Sample Example 3. Homework: p.125-126▶ hw 3,6,9; p.121-122▶ hw $(4n-1)$ for n from 1 to 7; Study and write out the solution to Sample Example 2 on pages 126-8.
	Lec 24	Pages 128-130	Homework: p.125-6▶ hw 1,4,7; p.121-122▶ hw $(4n-2)$ for n from 1 to 8; Study and write out the solution to Sample Example 3 beginning on page 128; p.130a▶ hw 1
	REC 8	Page 122	page 122▶ Misc ex 1-10; p.114▶ CE 1 (parts 1-4)
Week 9 3/14 – 3/18		SPRING RECESS: MARCH 13-19, 2011	
Week 10 3/21 – 3/25	TANGENT LINES, INTERSECTION OF TWO LINES, SUBSTITUTION INTO CUBIC POLYNOMIALS, FORMALLY USING THE DERIVATIVE AS A FORMULA FOR THE SLOPE OF THE TANGENT LINE		
	Lec 25	Pages 132-135	including Classwork Exercises on 135. Homework: p.135▶ hw 1,3,5; p.125-6▶ hw 2,5,8; p.130a▶ hw 2; p.115▶ hw 2 (review this topic for the upcoming common examination)
	Lec 26	Pages 136-138	including Classwork Exercise on page 138. Homework: p.130a▶ 3; p.138-9▶ hw 1,3; p.135▶ hw ex 2,4,6
	Lec 27	Pages 141-146	Homework: Study and write up the solution to Illustrative Example I starting on page 142; p.139▶ 2,4; p.121-122▶ hw ex $(4n)$ for n from 1 to 7, p.159▶ CE 1
	REC 9	Page 131	page 131▶ Misc ex 1-6
Week 11 3/28 – 4/1		LAST DAY TO WITHDRAW FROM THIS COURSE	
	THE PARABOLA		
	Lec 28	Pages 147-150	Homework: Study and write up the solution to Illustrative Example II starting on page 147; p.159▶ CE 2,3; p.115-116▶ SE 1
	Lec 29	Pages 151-159	Homework: p.159▶ hw $(3n-1)$ for n from 1 to 4; p.130a▶ 3; p.159▶ SE 1,4,7

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	REC 10	Page 140	page 140▸ Misc 1,2,3; p. 116▸ hw 2
Week 12 4/4 – 4/8	COMPLETING THE SQUARE TECHNIQUE, WORKING WITH FRACTIONS-PRIME FACTORIZATION, QUADRATIC FORMULA, THE DISCRIMINANT		
	Lec 30	Pages 160-164	including Classwork Exercises 1 and 2 on page 164. Homework: p.159▸ hw (3n-2) for n from 1 to 4; p.164▸ I (parts 1,2,3); II (parts 1,2,3)
	Lec 31	Pages 165-170	including CE 1,2 on page 167 and the CE on page 170. Homework: p.170▸ hw 2,4,6; p.159▸ (3n) for n from 1 to 4; p.164 part I▸ hw 4,5
	Lec 32	Pages 172-177	up to but not including Illustrative Example II. Homework: Study and write up the solution to Illustrative Example I starting on page 172; p.170▸ hw 1,3,5; p.164 part II▸ hw 4,5
	REC 11	Page 171	page 171▸ Misc 1-6
Week 13 4/11 – 4/15	Lec 33	STUDENT INITIATED REVIEW SESSION FOR COMMON EXAM 3	
		REVIEW FOR EXAM #3	 STUDY FOR EXAM #3
		MIDTERM EXAM III: WEDNESDAY ~ APRIL 13, 2011	
		GO OVER EXAM #3	
	QUADRATIC EQUATIONS AND PARABOLAS CONTINUED		
	Lec 34	Pages 177-183	including CE 1,2 on page 183. Homework: Study and write up the solution to Illustrative Example II starting on page 177; p.183▸ hw 1,4,5; p.116▸ hw 3
Lec 35	Pages 184-190	including page 190 Classwork Exercise top 1. Homework: p.183▸ hw 2,3,6; p.190▸ hw top ex 1-6	
REC 12	Page 116-117	page 116-117▸ SE 3,4; p.117▸ Misc ex 2,4	

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Week 14	SYSTEMS OF 3 LINEAR EQUATIONS IN 3 UNKNOWNNS, COMBINING ALGEBRAIC FRACTIONS	
4/18 – <u>4/22</u>		
Lec 36	Page 190	classwork Exercises bottom 1-4; page 191 RE Examples. Homework: p.190 bottom hw ex 1,4,7,8; p.191 hw 1-8
Lec 37	Pages 192-194	Homework: p.117 Misc 1,3 Read the instructions at the top of 195 carefully in order to make us of the check points in your solutions. Note: Check Points and instructions as to how to proceed with the solution will not be given on the Final Exam. They are included to help with student's initial efforts at this topic, but students should also check each step independently of the check points to prepare for the final examination. p.195 Ex 1,2,3.
Lec 38	Pages 198-200	Homework: p.196 4,5,6; p.200-201 1,2,3,4
REC 13	Pages 190-197	page 190 2,3,5,6; p.197 11 first, then 9, 10
<u>4/22</u>	L▶	GOOD FRIDAY ~ UNIVERSITY CLOSED
Week 15	COMBINING ALGEBRAIC FRACTIONS CONTINUED	
4/25 – 4/29		
Lec 39	Pages 201-202	Work pages 201-202 exercises 5,6,7. Work page 197 ex 8. Homework: p.202-203 8,9,10,11,12
Lec 40	Pages 201-202	Work pages 201-202 exercises 5,6,7. Work page 197 ex 8. Homework: p.202-203 8,9,10,11,12
Lec 41	REVIEW FOR FINAL EXAM	L▶ STUDY FOR FINAL EXAM
REC 14	Pages 194-204	page 204 ex 13,14, Misc ex 1-5; p.196-197 ex 7
Week 16	REVIEW FOR FINAL EXAM	
5/2 - <u>5/4</u>		
L▶	TUE MAY 3 CLASSES FOLLOW A FRIDAY SCHEDULE	
L▶	5/4 READING DAY	
Finals	FINAL EXAM WEEK: MAY 5-11, 2011	