

Math 150 Intermediate Algebra (CRN #20883 ; Fall 2009 MTuWTh Class)

Text: Intermediate Algebra, Miller/O'Neill/Hyde ; 2nd Ed.

1st Assignment Sheet

R. Everest

[A] means all; that is 24-28 [A] means 24, 25, 26, 27 & 28

[E] means even; that is 4 – 64 [E] means 4, 6, 8, 10, 12, ...

[O] means odd; that is 31 – 47 [O] means 31, 33, 35, 37, 39, ...

[m3] means multiples of three; that is 27-39 [m3] means 27, 30, 33, 36 & 39

[EOO] means every other odd; that is, 1 – 57 [EOO] means 1, 5, 9, 13, 17 ...

[EOE] means every other even; that is, 2 – 56 [EOE] means 2, 6, 10, 14, 18 ...

Class Date	Section(s)	Problems	Topic
Mon 8/31	n/a	Introduction//Syllabus	Course Introduction
Tues 9/1	1.1 & Start 1.3	1.1 : 2(d,f,h,i), 7, 11, 13, 17, 19, 23, 27–59[EOO], 74-76[A], 83, 87, 89 1.3 : 2(c,d,e), 5,7,11,15,19	Number Systems, Interval Notation, Simplifying Expressions
Weds 9/2	Finish 1.3 & 1.4	1.3 : 23–59[EOO], 61-66[A] 1.4 : 3, 7, 9, 19, 35, 39, 41, 45–57[EOO], 65–97[EOO]	Simplifying Expressions, Linear Equations in One Variable
Thurs 9/3	1.5 & Start 1.6	1.5 : 7, 9, 13, 17, 23, 25, 27, 33, 39, 41, 45, 49-57[O] 1.6 : 3-9[O], 15-19 [O], 25	Applications/Literal Equations/Geometry
Mon 9/7	Finish 1.6 & 1.7 & Start 1.8	1.6 : 31–59[EOO]; 60, 61, 66-70[E] 1.7 : 3, 7, 9–45[EOO], 57–73[EOO]; 74-77[A] 1.8 : 3, 5, 11, 15, 19–71[EOO]	Literal Equations, Linear Inequalities in One Variable, Integer Exponents
Tues 9/8	Finish 1.8 & 2.1 & Start 2.2	1.8 : 75-83[EOO], 85, 99, 107, 111, 114 2.1 : 5(b,d,e), 7, 17, 21, 30 2.2 : 2(b,c,d,e), 9, 13	Integer Exponents & Scientific Notation The Rectangular Coordinate System/Midpoint Formula, Linear Equations in Two Variables
Weds 9/9	Finish 2.2 & 2.3	2.2 : 17, 21, 27, 31, 35, 37, 41, 45, 47, 50, 51, 56, 57 2.3 : 5, 7, 9, 15, 19, 23, 25, 33, 35, 39, 57, 61	Linear Equations in Two Variables, Slope of a Line
Thurs 9/10	2.4 & 2.5	2.4 : 7, 11-15[O], 21-25[O], 29, 32, 33, and... 35-39[O], 41–77[EOO]; 79, 80-96[E] 2.5 : 3, 5, 7, 9, 17, 19	Equations of a Line, Applications of Linear Equations/Graphing,
Mon 9/14	3.1 & 3.2	3.1 : 5, 9, 12, 17, 19, 23-29[O]; 33-36[A] 3.2 : 5-9[O], 13, 15, 21, 25, 31, 33, 39, 45, 49	Solving Systems of Linear Equations by Graphing & Using Substitution
Tues 9/15	3.3 & 3.4	3.3 : 7, 11, 19, 25, 33, 39, 47, 49 3.4 : 3, 7, 11, 15-29[O], 33, 35, 39, 45	Solving Systems of Linear Equations of Two Variables (2X2 S.O.E.s) Using Elimination/Substitution, Applications of S.O.E.s

Weds 9/16	3.5 & Start 4.1	3.5 : 11, 15, 27-31[O], 37, 44 4.1 : 3, 7, 11-15[O]	Solving Systems of Linear Equations of Three Variables (3X3 S.O.E.s) by Using Elimination/ Substitution & Applications Introduction to Relations
Thurs 9/17	Finish 4.1 & 4.2	4.1 : 17-25[O]; 26 4.2 : 5, 11, 13, 17-53[EOO], 55, 59, 63-75[EOO]; 77, 84-96[E]	Introduction to Relations & Functions
Mon 9/21	MT#1	TEST #1 <i>Today, 9/21/09, is the "No Record" Deadline</i>	Sections 1.1 – 3.5
Tues 9/22	4.3	4.3 : 3, 5, 13-29[EOO], 31-37[O], 39-59[EOO], 57, 63	Graphs of Functions
Weds 9/23	4.4 & 5.1	4.4 : 9-17[O], 25-29[O], 34 5.1 : 5, 19, 33, 37, 43-63[EOO], 67, 73, 77	Direct, Inverse, Joint & Combined Variation, Intro to Polynomial Functions, Addition and Subtraction of Polynomials
Thurs 9/24	5.2 & Start 5.3	5.2 : 3, 5, 9-45[EOO], 47-67[EOO], 65, 77, 83, 97-103[O] 5.3 : 11-39 [EOO]	Multiplication and Division of Polynomials

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Mon 9/28	Finish 5.3 & 10.1	5.3 : 44, 46 , 42-72 [m3], 74-77[A] 10.1 : 3-7[O]; 13-23[O]	Division of Polynomials, Function Operations & Function Composition
Tues 9/29	5.4 & Start 5.5	5.4 : 12-24[EOE], 26, 34-46[EOE], 44, 52-72[EOE], 74 5.5 : 4-44[EOE]	GCF & Factoring by Grouping, Factoring Trinomials
Weds 9/30	Finish 5.5 & 5.6	5.5 : 58-98[EOE] 5.6 : 4-12[EOE], 14-22[EOE], 24-32[EOE], and... 34-78[EOE]; 79-82[A]; 85-89[A]	Factoring Trinomials/Binomials
Thurs 10/1	5.7 & 5.8	5.7 : 1, 3, 8-116[EOE] 5.8 : 17-49[EOO], 51-55[O], 59, 63-69[O], and ... 70, 72, 81-84[A]; 85 (a-c only)	General Factoring Techniques, Solving Equations Using the Zero Product Property (ZPP)
Mon 10/5	MT#2	TEST #2	Sections 4.1 – 5.8 & 10.1
Tues 10/6	6.1 & Start 6.2	6.1 : 3, 7-15[EOO], 21-69[EOO], 75-85[O]; 88, 90 6.2 : 3-19 [EOO]	Rational Expressions & Rational Functions, Multiplying Rational Expressions

Weds 10/7	Finish 6.2 & Start 6.3	6.2 : 23-43[EOO]; 45 6.3 : 7, 13, 19, 25, 35-43	Dividing & Adding/Subtracting Rational Expressions
Thurs 10/8	Finish 6.3 & 6.4	6.3 : 47-63[EOO] 6.4 : 9-41[EOO]; 44-52[E]	Adding and Subtracting Rational Expressions, Complex Fractions
Mon 10/12	6.5 & Start 6.6	6.5 : 9-37[EOO]; 39, 43, 47, 51, 55, 57, 62-70[E] 6.6 : 11-23[O], 27, 31, 35	Solving Rational Equations, Applications of Solving Rational Equations & Proportions
Tues 10/13	Finish 6.6 & 7.1	6.6 : 47, 51-54[A] 7.1 : 9, 13, 17, 21, 23-67[EOO], 69, 79, 83, 87-90[A]; 97-105[O]	More Applications of Solving Rational Equations & n th Root Radical Expressions
Weds 10/14	7.2 & Start 7.3	7.2 : 9, 13, 17, 25-89[EOO], 95-107[O] 7.3 : 3-35 [EOO]	Rational Exponents, Simplifying Radical Expressions
Thurs 10/15	Finish 7.3 & 7.4	7.3 : 39-55[EOO], 57, 63, 67, 69, 70 7.4 : 15-63[EOO]; 62, 66, 78	Simplifying Radical Expressions, Adding and Subtracting Radicals
Mon 10/19	7.5 & Start 7.6	7.5 : 9-49[EOO], 51-99[EOO] 7.6 : 11-47[EOO]	Multiplying & Dividing Radicals, Rationalizing Denominators
Tues 10/20	Finish 7.6 & 7.7	7.6 : 51-71[EOO]; 73, 79 7.7 : 11, 17, 21, 27, 29, 33, 41, 43-63[EOO]; 65, 66, 67 (b only)	Rationalizing Denominators, Solving Radical Equations
Weds 10/21	7.8	7.8 : 11-45[O], 57-97[EOO]; 99	Complex Numbers
Thurs 10/22	8.1	8.1 : 3-15[O], 21, 27, 33-49[EOO]; 61, 64	Square Root Property & Completing the Square

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Mon 10/26	8.2	8.2 : 7, 9, 15-35[EOO]; 40, 45, 47, 55, 61-65[O], 66-70[E]; 84, 88 <i>Today, 10/26/09, is the "W" Deadline</i>	Quadratic Formula
Tues 10/27	8.3	8.3 : 13 - 25[EOO], 27-31[O] ; 35-55[O]; 56	Equations Quadratic in Form
Weds 10/28	MT#3	TEST #3	Sections 6.1 - 8.2
Thurs 10/29	8.4	8.4 : 11, 15, 23, 27, 49, 55, 63, 65	Graphs of Quadratic Functions

Mon 11/2	8.5	8.5 : 2-8[A] ; 10-16[E] ; 17-29[EOO] ; 31-51 [EOO]; 49, 52, 55, 60	Vertex of a Parabola & Applications
Tues 11/3	9.1	9.1 : 3-23[EOO], 31-63[EOO], 65, 70	Compound Inequalities
Weds 11/4	9.3	9.3 : 17, 19, 21, 29, 33, 39, 45, 47	Absolute Value Equations
Thurs 11/5	9.4	9.4 : 11, 23, 29, 35, 41, 45, 49-53[A]; 58	Absolute Value Inequalities
Mon 11/9	9.5	9.5 : 7, 17-61[EOO]; 43, 50	Linear Inequalities in Two Variables
Tues 11/10	10.1	10.1 : 3-7[O], 13, 15-27[EOO], 30-54[m3]; 55-75[EOO]; 83	Function Operations & Function Composition
Weds 11/11	MT#4 (Ch. 8) Rvw Day One	Ch. 8 Review (pp. 611-4) : 3-72[m3]	MT#4 (Ch. 8) Review Day One
Thurs 11/12	MT#4 (Ch. 8) Rvw Day Two	Ch. 9 Review (pp. 680-4) : 3-15[m3]; 32-60[m4]; 65, 70, 74	MT#4 (Ch. 9) Review Day Two
Mon 11/16	MT#4	T E S T # 4	Sections 8.1-8.5, 9.1 & 9.2-9.5 (again covering 8.1 & 8.2)
Tues 11/17	10.2	10.2 : 21-29[O], 33, 37, 39, 43, 51, 53-61[EOO], 64	Inverse Functions
Weds 11/18	10.3	10.3 : 3-9[O], 27, 29, 32, 36, 39-47[O]; 50, 52	Exponential Functions
Thurs 11/19	10.4	10.4 : 3, 5, 10-51[O], 55, 73, 77, 80-84[E]; 85	Logarithmic Functions

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Mon 11/23	10.5	10.5 : 2-5 [A]; 10-17[A]; 19-39[EOO]; 45-73[EOO], 75-85[O]	Properties of Logarithms
Tues 11/24	Start 10.6	10.6 : 3, 7, 9, 10, 12, 17, 19, 21	The Irrational Number "e" & The Natural Logarithm
Weds 11/25	Finish 10.6	10.6 : 23-43[EOO]; 45, 48-51[A]; 63	The Irrational Number "e" & The Natural Logarithm
Thurs 11/26		THANKSGIVING HOLIDAY	
Mon 11/30	10.7	10.7 : 11-39[EOO], 41, 47-59[EOO], 61, 63, 73, 74, 76, 78, 82	Logarithmic & Exponential Equations

Tues 12/1	11.1	11.1 : 5-11[O], 17, 19, 27, 31, 34, 36, 39, 41, 45, 46, 50-64[E]	Introduction to Conic Sections & Midpoint Formula & Circles
Weds 12/2	MT #5	TEST #5	Sections 10.1–10.7
Thurs 12/3	11.2	11.2 : 13, 15, 19–33[O]	More on Parabolas
Mon 12/7	11.3	11.3 : 9-49[EOO]; 51	The Ellipse & The Hyperbola
Tues 12/8	App. A-1	Appendix A-1 (pp. A-1 to A-7) : 28-46 [E]	Binomial Expansion (The Binomial Theorem)
Weds 12/9	Final Rvw Day One	Chapters 1-11 Cumulative Review Exercises (pp.840-842) : 1-38 [A] (but skip # 9 & 11)	Final Exam Review Day One
Thurs 12/10	Final Rvw. Day Two	Study for Final Exam	Final Exam Review Day Two
Mon 12/14	Chs. 1-11 Cumulative Final Exam	(CRN # 20883 Fall 2009 MTuWTh Math 150) FINAL EXAM : Monday, December 14, 2009, 10:30 am – 12:30 pm	Chapters 1-11 (Cumulative Exam)