

## Math 150 Intermediate Algebra (CRN #21908 ; Fall 2009 TuTh Class)

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

1<sup>st</sup> 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 ...**

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Class Date	Section(s)	Problems	Topic
Tues 9/1	n/a 1.1 & 1.3	Introduction//Syllabus 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, 23–59[EOO], 61-66[A]	Number Systems, Interval Notation, Simplifying Expressions
Thurs 9/3	1.4 & 1.5 & 1.6	1.4 : 3, 7, 9, 19, 35, 39, 41, 45–57[EOO], 65–97[EOO] 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, 31–59[EOO]; 60, 61, 66-70[E]	Linear Equations in One Variable, Applications/Literal Equations/Geometry
Tues 9/8	1.7 & 1.8 & 2.1 & Start 2.2	1.7 : 3, 7, 9–45[EOO], 57–73[EOO]; 74-77[A] 1.8 : 3, 5, 11, 15, 19–83[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, 17, 21, 27,	Linear Inequalities in One Variable, Integer Exponents & Scientific Notation The Rectangular Coordinate System/Midpoint Formula, Linear Equations in Two Variables
Thurs 9/10	Finish 2.2 & 2.3 & 2.4 & 2.5	2.2 : 31, 35, 37, 41, 45, 47, 50, 51, 56, 57 2.3 : 5, 7, 9, 15, 19, 23, 25, 33, 35, 39, 57, 61 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	Linear Equations in Two Variables, Slope of a Line, Equations of a Line, Applications of Linear Equations/Graphing,
Tues 9/15	3.1 & 3.2 & 3.3 & 3.4	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 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 by Graphing & Using Substitution, Solving Systems of Linear Equations of Two Variables (2X2 S.O.E.s) Using Elimination/Substitution, Applications of S.O.E.s
Thurs 9/17	3.5 & 4.1 & 4.2	3.5 : 11, 15, 27-31[O], 37, 44 4.1 : 3, 7, 11–25[O]; 26 4.2 : 5, 11, 13, 17–53[EOO], 55, 59, 63–75[EOO]; 77, 84-96[E]  <i>Next Monday, 9/21/09, is the “No Record” Deadline</i>	Solving Systems of Linear Equations of Three Variables (3X3 S.O.E.s) by Using Elimination/ Substitution & Applications Introduction to Relations & Functions
Tues 9/22	4.3 & MT#1	4.3 : 3, 5, 13–29[EOO], 31–37[O], 39–59[EOO], 57, 63  <b>TEST #1</b>	Graphs of Functions,  <b>Sections 1.1 – 3.5</b>
Thurs	4.4 &	4.4 : 9–17[O], 25-29[O], 34	Direct, Inverse, Joint &

9/24	5.1 & 5.2 & Start 5.3	5.1 : 5, 19, 33, 37, 43–63[EOO], 67, 73, 77 5.2 : 3, 5, 9–45[EOO], 47–67[EOO], 65, 77, 83, 97-103[O] 5.3 : 11–39 [EOO]	Combined Variation, Intro to Polynomial Functions, Addition, Subtraction, Multiplication, and Division of Polynomials
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Tues 9/29	Finish 5.3 & 10.1 & 5.4 & Start 5.5	5.3 : 44, 46 , 42-72 [m3], 74-77[A] 10.1 : 3-7[O]; 13-23[O] 5.4 : 12–24[EOE], 26, 34–46[EOE], 44, 52–72[EOE], 74 5.5 : 4–44[EOE]	Division of Polynomials, Function Operations & Function Composition, GCF & Factoring by Grouping, Factoring Trinomials
Thurs 10/1	Finish 5.5 & 5.6 & 5.7 & 5.8	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] 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)	Factoring Trinomials/Binomials, General Factoring Techniques, Solving Equations Using the Zero Product Property (ZPP)
<b>Tues 10/6</b>	6.1 & <b>MT#2</b>	6.1 : 3, 7–15[EOO], 21–69[EOO], 75–85[O]; 88, 90  <b>T E S T # 2</b>	Rational Expressions & Rational Functions, <b>Sections 4.1 – 5.8 &amp; 10.1</b>
Thurs 10/8	6.2 & 6.3 & 6.4	6.2 : 3–43[EOO]; 45 6.3 : 7, 13, 19, 25, 35–63[EOO] 6.4 : 9–41[EOO]; 44-52[E]	Multiplying/Dividing & Adding/Subtracting Rational Expressions, Complex Fractions
Tues 10/13	6.5 & 6.6 & 7.1	6.5 : 9–37[EOO]; 39, 43, 47, 51, 55, 57, 62-70[E] 6.6 : 11–23[O], 27, 31, 35, 47, 51-54[A] 7.1 : 9, 13, 17, 21, 23–67[EOO], 69, 79, 83, 87-90[A]; 97-105[O]	Solving Rational Equations, Applications of Solving Rational Equations & Proportions, n <sup>th</sup> Root Radical Expressions
Thurs 10/15	7.2 & 7.3 & 7.4	7.2 : 9, 13, 17, 25–89[EOO], 95-107[O] 7.3 : 3–55[EOO], 57, 63, 67, 69, 70 7.4 : 15–63[EOO]; 62, 66, 78	Rational Exponents, Simplifying Radical Expressions, Adding and Subtracting Radicals

Tues 10/20	7.5 & 7.6 & 7.7	7.5 : 9–49[EOO], 51-99[EOO] 7.6 : 11-71[EOO]; 73, 79 7.7 : 11, 17, 21, 27, 29, 33, 41, 43–63[EOO]; 65, 66, 67 (b only)	Multiplying & Dividing Radicals, Rationalizing Denominators, Solving Radical Equations
<b>Thurs 10/22</b>	7.8 & 8.1	7.8 : 11–45[O], 57–97[EOO]; 99 8.1 : 3–15[O], 21, 27, 33–49[EOO]; 61, 64  <b>Next Monday, 10/26/09, is the “W” Deadline</b>	Complex Numbers, Square Root Property & Completing the Square

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Tues 10/27	8.2 & 8.3	8.2 : 7, 9, 15–35[EOO]; 40, 45, 47, 55, 61-65[O], 66-70[E]; 84, 88 8.3 : 13 – 25[EOO], 27-31[O]; 35–55[O]; 56	Quadratic Formula, Equations Quadratic in Form
<b>Thurs 10/29</b>	8.4 & <b>MT#3</b>	8.4: 11, 15, 23, 27, 49, 55, 63, 65  <b>T E S T # 3</b>	Graphs of Quadratic Functions  <b>Sections 6.1 – 8.2</b>
Tues 11/3	8.5 & 9.1	8.5 : 2-8[A];10-16[E]; 17–29[EOO]; 31–51 [EOO]; 49, 52, 55, 60 9.1 : 3–23[EOO], 31–63[EOO], 65, 70	Vertex of a Parabola & Applications, Compound Inequalities
Thurs 11/5	9.3 & 9.4	9.3 : 17, 19, 21, 29, 33, 39, 45, 47 9.4 : 11, 23, 29, 35, 41, 45, 49-53[A]; 58	Absolute Value Equations & Absolute Value Inequalities
Tues 11/10	9.5 & 10.1	9.5 : 7, 17–61[EOO]; 43, 50 10.1 : 3-7[O], 13, 15–27[EOO], 30-54[m3]; 55-75[EOO]; 83	Linear Inequalities in Two Variables, Function Operations & Function Composition
Thurs 11/12	10.2 & <b>MT#4 Rvw</b>	Ch. 8 Review (pp. 611-4) : 3-72[m3] Ch. 9 Review (pp. 680-4) : 3-15[m3]; 32-60[m4]; 65, 70, 74	MT#4 (Chs. 8 & 9) Review
<b>Tues 11/17</b>	10.2 & <b>MT#4</b>	10.2 : 21–29[O], 33, 37, 39, 43, 51, 53-61[EOO], 64  <b>T E S T # 4</b>	Inverse Functions  <b>Sections 8.1–8.5, 9.1 &amp; 9.2-9.5 (again covering 8.1 &amp; 8.2)</b>
Thurs	10.3	10.3 : 3-9[O], 27, 29, 32, 36, 39–47[O]; 50, 52	Exponential Functions

11/19	& 10.4	10.4 : 3, 5, 10–51[O], 55, 73, 77, 80–84[E]; 85	& Logarithmic Functions
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Tues 11/24	10.5 & Start 10.6	10.5 : 2-5 [A]; 10-17[A]; 19–39[EOO]; 45–73[EOO], 75-85[O]  10.6 : 3, 7, 9, 10, 12, 17, 19, 21	Properties of Logarithms, The Irrational Number “e” & The Natural Logarithm
Thurs 11/26		<b>THANKSGIVING HOLIDAY</b>	
Tues 12/1	Finish 10.6 & 10.7	10.6 : 23–43[EOO]; 45, 48-51[A]; 63  10.7 : 11–39[EOO], 41, 47–59[EOO], 61, 63, 73, 74, 76, 78, 82	The Irrational Number “e” & The Natural Logarithm, Logarithmic & Exponential Equations
<b>Thurs 12/3</b>	Start 11.1 & <b>MT #5</b>	11.1 : 5-11[O], 17, 19, 27, 31  <b>T E S T # 5</b>	Introduction to Conic Sections & Midpoint Formula & Circles  <b>Sections 10.1–10.7</b>
Tues 12/8	Finish 11.1 & 11.1 & 11.3	11.1 : 34, 36, 39, 41, 45, 46, 50-64[E] 11.2 : 13, 15, 19–33[O] 11.3 : 9-49[EOO]; 51	Midpoint Formula & Circles, More on Parabolas, The Ellipse & The Hyperbola
Thurs 12/10	App. A-1 & Final Rvw.	Appendix A-1 (pp. A-1 to A-7) : 28-46 [E]  Chapters 1-11 Cumulative Review Exercises (pp.840-842) : 1-38 [A] (but skip # 9 & 11)	Binomial Expansions (The Binomial Theorem)  Final Exam Review
<b>Thurs</b>	<b>Chs. 1-11</b>	<b>(CRN # 21908 Fall 2009 TuTh Math 150)</b>	<b>Chapters 1-11</b>

<b>12/17</b>	<b>Cumulative Final Exam</b>	<b>FINAL EXAM : Thursday, December 17, 2009, 1:00 pm - 3:00 pm</b>	<b>(Cumulative Exam)</b>
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