

## Math 150 Intermediate Algebra (CRN #30352 ; Spring 2010 TuTh AM 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 ...**  
**[EOE] means every other even; that is, 2 – 56 [EOE] means 2, 6, 10, 14, 18 ...**

Class Date	Section(s)	Problems	Topic
Thurs <b>2/18</b>	n/a 1.1 & 1.2	Introduction//Syllabus <b>1.1</b> : 2(d,f,h,i), 7, 11, 13, 17, 19, 23, 27–59[EOO], and... 74-76[A], 83, 87, 89 <b>1.2</b> : 3, 5, 9, 11, 13–89[EOO], 91, 93, 97, 99, 102-110[E]	Number Systems, Interval Notation, Operations on Real Numbers
Tues <b>2/23</b>	1.3 & 1.4 & 1.5 & 1.6 &	<b>1.3</b> : 2(c,d,e), 5,7,11,15,19, 23–59[EOO], 61-66[A] <b>1.4</b> : 3, 7, 9, 19, 35, 39, 41, 45–57[EOO], 65–97[EOO] <b>1.5</b> : 7, 9, 13, 17, 23, 25, 27, 33, 39, 41, 45, 49-57[O] <b>1.6</b> : 3-9[O], 15-19 [O], 25, 31–59[EOO]; 60, 61, 66-70[E]	Simplifying Expressions, Linear Equations & Applications of, Literal Equations/Geometry
Thurs <b>2/25</b>	1.7 & 1.8 & 2.1 & 2.2	<b>1.7</b> : 3, 7, 9–45[EOO], 57–73[EOO]; 74-77[A] <b>1.8</b> : 3, 5, 11, 15, 19–83[EOO], 85, 99, 107, 111, 114 <b>2.1</b> : 5(b,d,e), 7, 17, 21, 30 <b>2.2</b> : 2(b,c,d,e), 9, 13, 17, 21, 27, 31, 35, 37, and... 41, 45, 47, 50, 51, 56, 57 <i>Next Monday, 03/01/10, is the “Last Day For Refund” Deadline</i>	Linear Inequalities in One Variable, Integer Exponents & Scientific Notation ,The Rectangular Coordinate System/Midpoint Formula, Linear Equations in Two Variables
Tues <b>3/2</b>	2.3 & 2.4 & 2.5 & 3.1	<b>2.3</b> : 5, 7, 9, 15, 19, 23, 25, 33, 35, 39, 57, 61 <b>2.4</b> : 7, 11-15[O], 21-25[O], 29, 32, 33, 35-39[O], and... 41–77[EOO]; 79, 80-96[E] <b>2.5</b> : 3, 5, 7, 9, 17, 19 <b>3.1</b> : 5, 9, 12, 17, 19, 23-29[O]; 33-36[A]	Slope of a Line, Equations of a Line, Applications of Linear Equations/Graphing, Solving Systems of Linear Equations by Graphing
Thurs <b>3/4</b>	3.2 & 3.3 & 3.4	<b>3.2</b> : 5-9[O], 13, 15, 21, 25, 31, 33, 39, 45, 49 <b>3.3</b> : 7, 11, 19, 25, 33, 39, 47, 49 <b>3.4</b> : 3, 7, 11, 15-29[O], 33, 35, 39, 45 <i>Next Monday, 03/08/10, is the “Last Day To Add” &amp;                      the “No Record” Deadline</i>	Solving Systems of Linear Equations of Two Variables (2X2 S.O.E.s) by Using Elimination/Substitution, Applications of 2X2 S.O.E.s
Tues <b>3/9</b>	3.5 & 4.1 & 4.2	<b>3.5</b> : 11, 15, 27-31[O], 37, 44 <b>4.1</b> : 3, 7, 11-25 [O] ; 26 <b>4.2</b> : 5, 11, 13, 17-53 [EOO] ; 55, 59, and ... 63-75 [EOO] ; 77, 84-96 [E]	Solving 3X3 S.O.E.s by Using Elimination & Substitution, & Applications, Introduction to Relations & Functions
Thurs <b>3/11</b>	MT#1 & 4.3	<b>TEST #1</b>  <b>4.3</b> : 3, 5, 13–29[EOO], 31–37[O], 39–59[EOO], 57, 63	<b>Sections 1.1 – 3.5</b> Graphs of Functions

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Class Date	Section(s)	Problems	Topic
Tues 3/16	4.3 & 5.1 & 5.2	<b>4.4</b> : 9–17[O], 25-29[O], 34, 38, 40-42[A] <b>5.1</b> : 5, 19, 33, 37, 43–63[EOO], 67, 73, 77, 81, 85 <b>5.2</b> : 3, 5, 9–45[EOO], 47–67[EOO], and... 65, 77, 83, 97-113[O]	Direct, Inverse, Joint & Combined Variation, Intro to Polynomial Functions, Addition/Subtraction/Multiplication of Polynomials
Thurs 3/18	5.3 & 10.1 & 5.4 & <i>Start 5.5</i>	<b>5.3</b> : 11–71[EOO], 74-77[A] <b>10.1</b> : 3-7[O]; 13-23[O] <b>5.4</b> : 12–24[EOE], 26, 34–46[EOE], 44, 52–72[EOE], 74 <b>5.5</b> : 4-44[EOE]	Division of Polynomials, Function Operations & Function Composition, GCF & Factoring by Grouping, Factoring Trinomials
Tues 3/23	<i>Finish 5.5</i> & 5.6 & 5.7 & 5.8	<b>5.5</b> : 58–98 [EOE] <b>5.6</b> : 4–12[EOE], 14–22[EOE], 24–32[EOE], and... 34–78[EOE]; 79-82[A]; 85-89[A] <b>5.7</b> : 1, 3, 8–116[EOE] <b>5.8</b> : 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)
Thurs 3/25	MT#2 & 6.1	<b>TEST # 2</b> <b>6.1</b> : 3, 7–15[EOO], 21–69[EOO], 75–85[O]; 88, 90	<b>Sections 4.1 – 5.8 &amp; 10.1</b> Rational Expressions & Rational Functions
Tues 3/30	6.2 & 6.3 & 6.4	<b>6.2</b> : 3–43[EOO]; 45 <b>6.3</b> : 7, 13, 19, 25, 35–63[EOO] <b>6.4</b> : 9–41[EOO]; 44-52[E]	Multiplying/Dividing & Adding/Subtracting Rational Expressions, Complex Fractions
Thurs 4/1	6.5 & 6.6 & 7.1	<b>6.5</b> : 9–37[EOO]; 39-55 [EOO] , 57, 62-70[E] <b>6.6</b> : 11–23[O], 27, 31, 35, 47, 51-54[A] <b>7.1</b> : 9, 13, 17, 21, 23–67[EOO], 69, 79, 83, and... 87-90[A]; 97-105[O]	Solving Rational Equations, Applications of Solving Rational Equations & Proportions, n <sup>th</sup> Root Radical Expressions
Tues 4/6	7.2 & 7.3 & 7.4	<b>7.2</b> : 9, 13, 17, 25–89[EOO], 95-107[O] <b>7.3</b> : 3–55[EOO], 57, 63, 67, 69, 70 <b>7.4</b> : 15–63[EOO]; 62, 66, 78	Rational Exponents, Simplifying Radical Expressions, Adding & Subtracting Radicals
Thurs 4/8	7.5 & 7.6 & 7.7	<b>7.5</b> : 9–49[EOO], 51-99[EOO] <b>7.6</b> : 11-71[EOO]; 73, 79 <b>7.7</b> : 11, 17, 21, 27, 29, 33, 41, 43–63[EOO]; and... 65, 66, 67 (b only) <i>This Saturday, 4/10/10, is the "W" Deadline</i>	Multiplying Radicals, Dividing Radicals & Rationalizing Denominators, Solving Radical Equations
4/12/10 - 4/16/10		<b>SPRING BREAK</b>	<i>Enjoy the rest &amp; relaxation!</i>

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Tues <b>4/20</b>	7.8 & 8.1 & Rvw for MT#3	<b>7.8</b> : 11–45[O], 57–97[EOO]; 99 <b>8.1</b> : 3–15[O], 21, 27, 33–49[EOO]; 61, 64 MT#3 Review	Complex Numbers, Square Root Property & Completing the Square
Thurs <b>4/22</b>	Rvw for MT#3	<i>Class Cancelled : Mr. Everest is at a Math conference</i>	<i>Yeah!!!</i>
Tues <b>4/27</b>	MT#3 & 8.2	<b>TEST #3</b> <b>8.2</b> : 7, 9, 15–35[EOO]; 40, 45, 47, 55, and... 61–65[O], 66–70[E]; 84, 88	<b>Sections 6.1 – 7.8</b>  Quadratic Formula
Thurs <b>4/29</b>	8.3 & 8.4	<b>8.3</b> : 13 – 25[EOO], 27–31[O] ; 35–55[O]; 56 <b>8.4</b> : 11, 13 , 22 , 23, 26 , 34 , 36 , 40 , and... 41–48 [A] ; 50, 55, 63, 65	Equations Quadratic in Form, Graphs of Quadratic Functions
Tues <b>5/4</b>	8.5 & 9.1	<b>8.5</b> : 2–8[A]; 10–16[E]; 17–29[EOO] ; and... 31–47[EOO]; 49, 51, 52, 55, 60 <b>9.1</b> : 3–23[EOO], 31–63[EOO], 60 , 65, 70	Vertex of a Parabola & Applications, Compound Inequalities
Thurs <b>5/6</b>	9.3 & 9.4	<b>9.3</b> : 17, 19, 21, 29, 33, 39, 45, 47 <b>9.4</b> : 11, 23, 29, 35, 41, 45, 49–53[A]; 58	Absolute Value Equations & Absolute Value Inequalities
Tues <b>5/11</b>	9.5 & 10.1 & MT#4 Rvw	<b>9.5</b> : 7 , 17–61[EOO]; 43, 50 <b>10.1</b> : 3–7[O], 13, 15–27[EOO], 30–54[m3]; 55–75[EOO]; 83 <i>Recommended (Not Required) Work :</i> <i>Ch. 8 Review (pp. 611–4) : 3–72[m3]</i> <i>Ch. 9 Review (pp. 680–4) : 3–15[m3]; 32–60[m4]; 65, 70, 74</i>	Linear Inequalities in Two Variables, Function Operations & Function Composition MT#4 (Chs. 8 & 9) Review
Thurs <b>5/13</b>	MT#4 & 10.2	<b>TEST #4</b> <b>10.2</b> : : 21–29[O], 33, 37, 39, 43, 51, 53–61[EOO], 64	<b>Sections 8.1–8.5, 9.1 &amp; 9.2–9.5</b> Inverse Functions

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Class Date	Section(s)	Problems	Topic
Tues 5/18	10.3 & 10.4	<b>10.3</b> : 3-9[O], 27, 29, 32, 36, 39–47[O]; 50, 52 <b>10.4</b> : 3, 5, 10–51[O], 55, 73, 77, 80-84[E]; 85	Exponential Functions, Logarithmic Functions
Thurs 5/20	10.5 & <i>Start 10.6</i>	<b>10.5</b> : 2-5 [A]; 10-17[A]; 19–39[EOO]; and... 45–73[EOO], 75-85[O] <b>10.6</b> : 3, 7, 9, 10, 12, 17, 19, 21	Properties of Logarithms, The Irrational Number “e” & The Natural Logarithm
Tues 5/25	<i>Finish 10.6</i> & 10.7	<b>10.6</b> : 23–43[EOO]; 45, 48-51[A]; 63 <b>10.7</b> : 11–39[EOO], 41, 47–59[EOO], and... 61, 63, 73, 74, 76, 78, 82	The Irrational Number “e” & The Natural Logarithm, Logarithmic & Exponential Equations
Thurs 5/27	MT #5 & 11.1	<b>T E S T # 5</b>  <b>11.1</b> : 5-11[O], 17, 19, 27, 31, 34, 36, 39, and... 41, 45, 46, 50-64[E]	<b>Sections 10.1–10.7</b>  Introduction to Conic Sections & Midpoint Formula & Circles
Tues 6/1	11.2 & 11.3	<b>11.2</b> : 13, 15, 19–33[O] <b>11.3</b> : 9-49[EOO]; 51	More on Parabolas, The Ellipse & The Hyperbola
Thurs 6/3	App. A-1 & Final Exam Review	<b>Appendix A-1</b> (pp. A-1 to A-7) : 28-46 [E] <i>Recommended (Not Required) Work</i> : Chapters 1-11 Cumulative Review Exercises (pp.840-842) : 1-38 [A] (but skip # 9 & 11)	Binomial Expansions (The Binomial Theorem)  Final Exam Review
Thurs 6/10	<b>Chs. 1-11 Cumulative Final Exam</b>	<b>(CRN # 30352 Spring 2010 TuTh AM Math 150)</b> <b>FINAL EXAM :</b> <b>Thursday, June 10, 2010, 8:00 am - 10:00 am</b>	<b>Chapters 1-11 (Cumulative Exam)</b>