

DSPM 0800 ELEMENTARY ALGEBRA CLASS AND HOMEWORK ASSIGNMENTS

REQUIRED TEXT: *Beginning and Intermediate Algebra, 4th Edition*, by Lial, Hornsby, McGinnis ISBN 0-321-507223 with Mymathlab access (stand alone Mymathlab access: : ISBN 032119991X, stand alone textbook ISBN—0-321-44233-4)

REQUIRED: DSPM 0800 Review Packet can be purchased in the NSCC bookstore or by downloading from ww2.nsc.edu/dspm

REQUIRED CALCULATOR: Texas Instruments TI-84 Plus. TI-89 and comparable calculators are not allowed

RECOMMENDED: *Beginning and Intermediate Algebra Student's Solution Manual, 4th Edition*, ISBN 0-321-44954-1, available in the NSCC bookstore

WEEKLY SCHEDULE

| WEEKS | LESSON | TOPIC | PAGE | HOMEWORK ASSIGNMENT |
|---------------|--------|---|-----------------------------|---|
| Week 1 | | Syllabus and Student Rules | | |
| | 1.1 | Fractions | pp. 11-14: | 1-6 (all); 7, 9, 11, 17, 19, 21, 25, 29, 33-51 (odd); 55-69 (odd); 71, 73, 77, 79 |
| | 1.2 | Exponents, Order of Operations, and Inequality | pp. 21-24: | 1-4 (all); 5, 9, 13, 17, 19, 23, 29, 31, 33, 39, 43, 47, 49, 53-59 (odd); 67-73 (odd); 83, 85, 89, 93, 95 |
| | 1.3 | Variables, Expressions, and Equations | pp. 29-30: | 1-12 (all); 19-57 (odd); 63-75 (odd); 77, 79 |
| | 1.4 | Real Numbers & Number Line | pp. 38-40: | 5-19 (odd); 23-61 (odd); 65 |
| | 1.5 | Adding and Subtracting Real Numbers | pp. 48-53: | 1-6 (all); 7-63 (odd); 67-101(odd); 111, 113, 119 |
| | 1.6 | Multiplying and Dividing Real Numbers | pp. 62-65: | 1-10 (all); 11-55 (odd); 59, 67, 69, 73, 79, 81, 85, 87; 91-103 (odd); 105, 107, 109, 111 |
| | | Summary Exercises on Operations with Real Numbers | p. 66: <i>(Optional)</i> | 1-42 (all) |
| | 1.7 | Properties of Real Numbers | pp. 74-76: | 1-19 (odd); 23, 27, 43, 45, 47, 53, 61-77 (odd) |
| | 1.8 | Simplifying Expressions | pp. 80-82: | 1-4 (all); 5-41 (odd); 47, 55, 61-77 (odd) |
| | | Test 1 Review | | Worksheet from Course Packet |

Week 2**Test 1 (Chapter 1)**

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| 2.1 | The Addition Property of Equality | pp. 100-102: | 1-4 (all); 7-41 (odd); 47-65 (odd); 69, 71 |
| 2.2 | The Multiplication Property of Equality | pp. 106-108: | 1-21 (odd); 25-67 (odd); 73, 75 |
| 2.3 | More on Solving Linear Equations | pp. 115-117: | 1, 5-53 (odd), 63-73 (odd) |
| | Summary Exercises on Solving Linear Equations (<i>Optional</i>) | p. 117: | 1-30 (all) |
| 2.4 | An Introduction to Applications of Linear Equations | pp. 125-131: | 1, 2, 5-13 (odd); 14-17 (all); 19, 23-31 (odd); 59 |
| 2.5 | Formulas and Applications from Geometry | pp. 137-141: | 3, 5, 7, 13-25 (odd); 33-37 (odd); 63-85 (odd) |
| 2.6 | Ratios and Proportions | pp. 146-149: | 1-27 (odd); 31-41 (odd); 45-55 (odd); 59-63 (odd) |
| 2.7 | Further Applications of Linear Equations: Percent, Interest, and Money | pp. 157-160: | 3-6 (all); 25-30 (all) |

Week 3

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|-----|--|--------------|---|
| | Further Applications of Linear Equations: Distance, Rate, and Time | pp. 160-162: | 35, 36, 37-43 (odd); 45-54 (all) |
| 2.8 | Solving Linear Inequalities | pp. 174-177: | 3-15 (odd); 21-49 (odd); 55-65 (all); 67 |
| | Review for Test 2 | | Worksheet from Course Packet |
| | Test 2 (Chapters 1-2) | | |
| 3.1 | Reading Graphs: Linear Equations in Two Variables | pp. 201-205: | 1-14 (all); 17-37 (odd); 41-69 (odd); 73 |
| 3.2 | Graphing Linear Equations in Two Variables | pp. 214-218: | 1-5 (odd); 7-12 (all); 13-29 (odd); 33-55 (odd); 62 |
| 4.1 | The Product Rule and Power Rules for Exponents | pp. 261-264: | 1-37 (odd); 43-79 (odd) |

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| | 4.2 | Integer Exponents and Quotient Rule | pp. 270-271: | 1-11 (odd); 15-47 (odd); 57-73 (odd) |
| Week 4 | | Summary Exercises on the Rules for Exponents | p. 272: (<i>Optional</i>) | 1-41 (odd) |
| | 4.3 | An Application of Exponents: Scientific Notation | p. 278: | 13-31 (odd) |
| | 4.4 | Adding and Subtracting Polynomials | pp. 289-292: | 1-55 (odd); 59-69 (odd); 73-77 (odd); 85-87 (odd) |
| | 4.5 | Multiplying Polynomials | pp. 297-300: | 1-55 (odd); 63-69 (odd) |
| | 4.6 | Special Products | pp. 303-306: | 1-19 (odd); 25-37 (odd) |
| | 4.7 | Dividing Polynomials | pp. 312-314: | 1-4 (all); 5-31 (odd) |
| | | Test 3 Review | | Worksheet from Course Packet |
| | | Test 3 (Chapters 1- 4) | | |
| | 5.1 | The Greatest Common Factor: Factoring by Grouping | pp. 334-336: | 1-15 (odd); 23-57 (odd); 67-83 (odd) |
| | 5.2 | Factoring Trinomials | pp. 340-342: | 7-71 (odd) |
| Weeks 5 | 5.3 | More on Factoring Trinomials | pp. 347-349: | 11-65 (odd); 79-83 (odd); 87, 89 |
| | 5.4 | Special Factoring Techniques | pp. 356-358: | 1, 3, 7-51 (odd); 59-75 (odd) |
| | | Summary Exercises on Factoring (<i>Optional</i>) | p. 359: | 1-71 (odd) |
| | 5.5 | Solving Quadratic Equations by Factoring | pp. 366-369: | 27-65 (odd) |
| | | Final Exam Review | | Worksheet from Course Packet |
| | | Final Comprehensive Exam | | |