

Math 251 topic reference for Algebra2go website

	Lecture Note Topic Reference	Lial/Hornsby/McGinnis Tenth ED. Reference
1	Exponents	1.2
2	Order of Operations	1.2
3	Inequalities	1.2
4	Variables, Expressions and Equations	1.3
5	Classifying Real Numbers HANDOUT	1.4
6	Opposite and Absolute Value	1.4
7	Addition and Subtraction	1.5
8	Multiplication and Division	1.6
9	Properties of Real Numbers	1.7
10	Simplifying Expressions	1.8
11	Solving Equations PART I	2.1
12	Solving Equations PART II	2.2
13	Solving Equations PART III	2.3
14	Applications of Linear Equations - Integer Word Problems	2.4
15	Applications of Linear Equations - Geometry Word Problems	2.5
16	Ratios and Proportions	2.6
17	Problem Solving - Mixture Problems	2.7
18	Problem Solving - Coin Problems	2.7
19	Introduction to Linear Equations in Two Variables	3.1
20	Graphing Linear Equations	3.2
21	Slope	3.3
22	Equations of Lines	3.4
23	Linear Inequalities	3.5
24	Systems of Equations HANDOUT	4.1
25	Solving Systems by Graphing	4.1
26	Solving Systems by Substitution	4.2
27	Solving Systems by Elimination	4.3
28	Applications of Linear Systems - Coin Problems	4.4
29	Applications of Linear Systems - Mixture Problems	4.4
30	Applications of Linear Systems - Distance Problems	4.4
31	Solving Systems of Linear Inequalities	4.5
32	Power and Product Rules for Exponents	5.1
33	Integer Exponents and the Quotient Rule	5.2
34	Adding and Subtracting Polynomials	5.4
35	Multiplying Polynomials	5.5
36	Special Products	5.6
37	Introduction to Factoring	6.1
38	Factoring By Grouping	6.1
39	Factoring Trinomials	6.2, 6.3
40	Special Factoring Rules	6.4
41	Solving Quadratic Equations	6.5
42	Applications of Quadratic Equations - Geometry Problems	6.6
43	Applications of Quadratic Equations - Integer Problems	6.6
44	Introduction to Rational Expressions	7.1
45	Simplifying Rational Expressions	7.1
46	Multiplying and Dividing Rational Expressions	7.2
47	Finding the LCD of Rational Expressions HANDOUT	7.3
48	Adding and Subtracting Rational Expressions	7.4
49	Complex Fractions	7.5
50	Solving Equations with Rational Expressions	7.6
51	Extraneous Solutions - Rational Expressions	7.6
52	Applications of Rational Expressions - Work Problems	7.7
53	Applications of Rational Expressions - Distance Problems	7.7
54	Variation	7.8
55	Evaluating Roots	8.1
56	Simplifying Radicals	8.2

57	Adding and Subtracting Radicals	8.3
58	Rationalizing the Denominator PART I	8.4
59	Multiplying with Radicals	8.5
60	Rationalizing the Denominator PART II	8.5
61	Solving Equations with Radicals Part I	8.6
62	Solving Equations with Radicals Part II	8.6
63	Extraneous Solutions - Radicals	8.6
64	Rational Exponents	8.7
65	The Square Root Property	9.1
66	Completing The Square	9.2
67	The Quadratic Formula	9.3