

Algebraically Speaking...
Chalkdust - Intermediate Algebra (Alg2)
Fall Semester

Homework Assignments:

Chapter 1 - Fundamentals of Algebra:

Review as necessary to make sure you are up to speed on concepts covered.

____ Lesson 1.1 - The Real Number System

____ Lesson 1.2 - Operations with Real Numbers

____ Lesson 1.3 - Properties of Real Numbers

____ Lesson 1.4 - Algebraic Expressions

____ Lesson 1.5 - Constructing Algebraic Expressions

____ Chapter 1 Review Exercises

Work problems #1-103 odd

____ Chapter 1 Practice Chapter Test (in book, p. 55)

Work all problems

Chapter2 - Linear Equations and Inequalities:

_____ Lesson 2.1 - Linear Equations:

Problems: # 1, 5, 7, 8, 9, 13, 15, 17, 23, 25, 29, 31, 35, 37,
41, 45, 47, 51, 53, 57, 59, 61, 65, 69

_____ Lesson 2.2 - Linear Equations and Problem Solving:

Problems: # 3 - 9 odd, 15 - 35 odd, 39, 41, 47, 51, 53, 55,
59,
61, 65, 73, 77, 81, 85, 87, 91, 95 - 105 odd

_____ Lesson 2.3 - Business and Scientific Problems:

Problems: # 1, 9, 17-23 odd, 29, 35, 37, 39, 49-55 odd,
59-69 odd, 73, 77, 81, 83

_____ Lesson 2.4 - Linear Inequalities

Problems: #5-10 all, 11, 15, 21, 27, 31, 37, 41, 51, 55, 61, 71,
75,
79, 83-89 odd, 93-105 odd, 109, 113-117 odd

_____ Lesson 2.5 - Absolute Value Equations and Inequalities:

Problems: #3, 5, 13, 17, 21, 23-29 odd, 35 - 39 odd,
43-49 odd, 53, 57, 59, 63, 65, 67, 77-84 all,
89, 91

_____ Chapter 2 Review Exercises

Recommended Review Problems: #5, 7, 9, 13, 17-29 odd, 33, 39-51 odd,
55-61 odd, 68, 69-75 odd, 79, 87, 95,
97, 105-109 odd, 113-117 odd, 122,
123, 125, 129, 131

Chapter 3 - Graphs and Functions:

_____ Lesson 3.1 - The Rectangular Coordinate System:

Problems: #11, 17, 21, 25, 27-43odd, 47-55odd, 61, 65, 67,
69, 73, 77, 79, 83, 87, 93, 95, 99

_____ Lesson 3.2 - Graphs of Equations:

Problems: #1-7all, 9, 11, 15-19odd, 23, 25-29all, 33, 41,
45-57odd, 69, 71, 75, 79, 83, 89, 95, 97,

_____ Lesson 3.3 - Slope and Graphs of Linear Equations:

Problems: #3, 5, 6, 7, 9-19odd, 23, 25, 29-37odd,
45, 47, 53, 57, 61, 65, 73-81odd, 82, 85, 87

_____ Lesson 3.4 - Equations of Lines:

Problems: #1-5all, 9, 15, 19, 27-35odd, 39, 45, 51,
55-65odd, 69, 71, 79, 81, 85, 89, 93

_____ Lesson 3.5 - Graphs of Linear Inequalities:

Problems: #1, 7, 9-14all, 17, 27-31odd, 35,
#39-43odd, 47, 51-69odd

_____ Lesson 3.6 - Relations and Functions:

Problems: #1-5odd, 11-15all, 17-23odd, 29, 31,
#39-47odd, 51-75odd, 79-99odd

_____ Lesson 3.7 - Graphs of Functions:

Problems: #1, 3, 7-15odd, 19, 25, 27, 33, 35, 37, 41, 43-
46all
#47(a, e, f), 49-77odd

_____ Chapter 3 Review Exercises

Recommended Review Problems: #1-5odd, 9, 11, 15-21odd, 24, 25, 29,
#39-47odd, 53-57odd, 61, 65, 67, 69-
75all,
#77, 83, 84, 93-99all, 99-103odd, 106,
#107, 111-115odd, 117-122all, 123, 125

Chapter 4 - Systems of Equations and Inequalities

_____ Lesson 4.1 - Systems of Equations

Problems: # 1, 5, 9 - 27odd, 31, 33, 35, 41, 45,
53, 61, 63, 71, 73, 79, 81, 87, 89,
95, 97, 103, 105, 111, 113

_____ Lesson 4.2 - Linear Systems in Two Variables

Problems: # 1, 7, 9, 17, 19, 25, 27, 33, 35, 41-49odd,
53, 57, 61-73odd, 77-83odd

_____ Lesson 4.3 - Linear Systems in Three Variables

Problems: # 1, 3, 7, 11, 15, 17, 21, 23, 27, 31, 33, 37
41 - 51 odd

_____ Lesson 4.4 - Matrices and Linear Systems

Problems: # 1 - 13 odd, 17, 21, 31 - 37 odd,
41 - 47 odd, 51 - 55 odd, 59, 63 - 85 odd

_____ Lesson 4.5 - Determinants and Linear Systems

Problems: # 1, 5, 11, 13, 17, 23, 27, 31, 37, 43, 47, 49, 51,
53,
55, 57, 59, 63, 67, 69, 71, 73, 75, 79, 83, 87,
89,
91

_____ Lesson 4.6 - Systems of Linear Inequalities

Problems: # 1, 3, 4, 5, 6, 11, 13, 31, 43,
51-65 Odd

_____ Chapter 4 Review Exercises

Recommended Review Problems: # 1, 5, 9, 17, 23, 31, 45, 47, 49,
63, 65, 69, 71, 73, 75, 79, 81,
87, 89, 91

Chapter 5 - Polynomials and Factoring:

_____ Lesson 5.1. - Integer Exponents and Scientific Notation

Problems: # 1, 3, 9, 11, 13, 17, 19, 21, 29, 33, 37, 47,
51-99 odd, 101, 105, 107, 115, 117, 125, 129,
133-151 odd

_____ Lesson 5.2 - Adding and Subtracting Polynomials:

Problems: # 1, 5-17 odd, 19-26 all, 27, 29, 33, 35, 39, 41
51-61 odd, 71, 73, 75, 81, 83, 87, 89,
97-113 odd

_____ Lesson 5.3 - Multiplying Polynomials:

Problems: # 3, 7-15 odd, 21, 23, 29, 31, 33, 37, 41, 43, 53,
61, 67, 69, 75-93 odd
97, 99-111 odd

_____ Lesson 5.4 - Factoring by Grouping and Special Forms:

Problems: # 17-33 odd, 37, 41, 43, 47, 49,
55-127 odd, 133, 135, 137, 141

_____ Lesson 5.5 - Factoring Trinomials:

Problems: # 1, 5-15 odd, 19, 37-49 odd,
67-121 odd, 125-128 all

_____ Lesson 5.6 - Solving Polynomial Equations by Factoring:

Problems: # 1-111 odd

_____ Chapter 5 Review Exercises

Recommended Review Problems: # 1-30 odd
43, 45, 47, 48
49-59 odd,
65-87 odd,
89, 90, 93-169 odd

Chapter 6 - Rational Expressions, Equations, and Functions:

_____ Lesson 6.1 - Rational Expressions and Functions

Problems: # 3, 7, 11, 15, 19, 23, 25, 27, 31, 43, 47, 51, 55,
61, 65, 69, 71, 73, 75, 79, 83, 85, 87, 89, 91

_____ Lesson 6.2 - Multiplying and Dividing Rational Expressions

Problems: # 9, 11, 15, 17, 19, 23, 25, 27, 29, 31, 33, 35, 37,
39, 41, 45, 47, 49, 51, 53, 55, 57, 59, 63, 65, 67, 69

_____ Lesson 6.3 - Adding and Subtracting Rational Expressions

Problems: # 1, 9, 17, 21, 49, 51, 53, 55, 57,
61-79 odd

_____ Lesson 6.4 - Complex Fractions

Problems: # 1, 5, 7, 11, 15, 19, 21, 23, 25, 29,
33, 37, 39, 41, 45, 47, 49, 51

_____ Lesson 6.5 - Dividing Polynomials and Synthetic Division

Problems: # 5, 9, 13, 15, 19-29 odd, 35, 37, 41, 49, 51, 61, 65,
67, 69, 71, 73-79 odd, 83, 91, 93

_____ Lesson 6.6 - Solving Rational Equations

Problems: # 5, 7, 9, 11, 15, 19, 25, 29, 35, 39, 45, 47, 55,
61, 63, 65, 67-75 odd

_____ Lesson 6.7 - Applications and Variations

Problems: # 1-31 odd, 43, 47, 49, 53, 55, 61, 65, 69, 71

_____ Chapter 6 Review Exercises

Problems: # 1, 3, 5, 6, 9, 11, 13, 15, 19, 22, 24, 25, 26, 28, 31, 33,
41, 45, 47, 49, 51, 52, 54, 58, 59, 60, 61, 63, 65,
67, 69, 71, 73, 75, 77, 79, 83, 89, 91, 93, 99, 102,
103, 104, 107, 115, 117, 119, 121
Also do 6.7 #14