Algebraically Speaking…
Chalkdust – Intermediate Algebra (Alg2)
Spring Semester

Homework Assignments:

Chapter 7 – Radicals and Complex Numbers:

_____ Lesson 7.1 – Radicals and Rational Exponents
Problems: # 1 – 43 odd, 49, 55, 59, 63, 67, 69, 71, 75, 79,
83, 87, 91, 93, 95, 97, 101, 105, 107, 109, 111,
115, 117, 119, 121, 123, 125, 127, 129, 131, 133,
137, 139, 141, 143, 145, 149, 153, 155, 157, 159,
161, 163, 167, 169, 171

_____ Lesson 7.2 – Simplifying Radical Expressions
Problems: # 1, 5, 7, 13, 17, 19, 25, 29, 31, 35, 39, 43, 45, 49,
53, 55, 61, 63, 67, 69, 73, 75, 77

_____ Lesson 7.3 – Adding and Subtracting Radical Expressions
Problems: # 2, 5, 8, 11, 13, 15, 19, 21, 23, 25, 27, 29, 35, 37,
39, 41, 43, 45, 47, 49, 51, 53, 61, 63, 66, 67

_____ Lesson 7.4 – Multiplying and Dividing Radical Expressions
Problems: # 1, 9, 15, 23, 27, 29, 35, 41, 45, 49, 51, 53, 55,
57, 63, 67, 71, 73, 75, 81, 83, 85, 89, 93, 95, 97,
99, 103, 109, 111, 113

_____ Lesson 7.5 – Radical Equations and Applications
Problems: # 1, 5, 11, 13, 17, 21, 25, 27, 28, 31, 33, 35, 39, 45,
47, 53, 55, 59, 65, 75, 77, 81, 85, 89, 91, 97,
99, 105, 107

_____ Lesson 7.6 – Complex Numbers
Problems: #1, 5, 7, 9, 13, 17, 19, 23, 25, 27, 31, 35, 39, 43, 45,
51, 55, 57, 61, 65, 69, 71, 77, 81, 85, 87, 91, 95,
99, 101, 105, 107, 109, 113, 117, 121, 123, 127,
129, 133, 135, 137, 139, 143, 145, 149,

_____ Chapter 7 Review Exercises
Problems: # 3, 15, 19, 21, 37, 39, 41, 43, 47, 49, 51, 52, 57,
58, 61, 65, 67, 69, 70, 75, 79, 81, 85, 87, 91,
93, 95, 97, 101, 103, 109, 111, 113, 115, 117, 11

Chapter 8 – Quadratic Equations, Functions, and Inequalities:

_____ Lesson 8.1 – Solving Quadratic Equations: Factoring and Special Forms
> Problems: # 1, 5, 9, 11, 13, 15, 17, 19, 23, 27, 31, 35, 37, 41, 45,
> # 49, 51, 55, 57, 59, 63, 67, 71, 75, 79, 81, 83, 85,
> # 89, 91, 95, 97, 101, 103, 105, 107, 111, 115, 119,
> # 123, 127, 131, 133, 139

_____ Lesson 8.2 – Completing the Square
> Problems: # 3, 17, 21, 25, 29, 33, 37, 41, 45, 49, 51, 55, 59,
> # 61, 65, 67, 69, 71, 73, 75, 77, 79, 81, 85, 87,
> # 89, 91, 93

_____ Lesson 8.3 – The Quadratic Formula
> Problems: # 5, 9, 15, 21, 27, 31, 35, 41, 43, 45, 47, 49, 53,
> # 57, 61, 65, 69, 71, 73, 77, 81, 83, 85, 87, 89,
> # 91, 95, 97, 101,

_____ Lesson 8.4 – Graphs of Quadratic Functions
> Problems: # 1-6all, 7, 9, 11, 13, 17, 19, 21, 23, 25, 27, 29, 31, 33,
> # 35, 41, 45, 47, 51, 55, 59, 63, 67, 71, 73, 75, 77,
> # 79, 83, 85, 87, 89, 91, 93, 97, 101, 103, 105, 107

_____ Lesson 8.5 – Applications of Quadratic Equations
> Problems: # 1, 15, 19, 21, 23, 29, 31, 35, 37, 41, 45, 47, 49, 53,

_____ Lesson 8.6 – Quadratic and Rational Inequalities
> Problems: # 1, 7, 21, 25, 27, 31, 35, 39, 43, 47, 51, 53, 57,
> # 66, 69, 73, 77, 83, 87, 91, 95, 99, 101, 107, 109,
> # 111, 113, 115, 117

_____ Chapter 8 Review Exercises
> Problems: # 5, 9, 15, 21, 27, 29, 42, 45, 47, 49, 51, 53, 55, 57,
> # 61, 67, 68, 69, 70, 79, 81, 82, 84, 89, 91, 93, 95, 97

Chapter 9 – Exponential and Logarithmic Functions:

_____ Lesson 9.1 – Exponential Functions:
> Problems: # 1-15 odd, 17, 19, 23, 25, 31, 33, 35, 40, 41, 45, 49,
> # 51, 57, 59-62 all, 63-73 odd, 82, 83, 85

_____ Lesson 9.2 – Composite and Inverse Functions
> Problems: # 1, 3, 7, 9, 21, 25, 27-33 odd, 35-40 all, 43, 45, 51,
> # 55, 59, 61, 63, 65, 67, 71, 75-78 all, 79, 8, 87,
> # 103, 107

_____ Lesson 9.3 – Logarithmic Functions
> Problems: # 1-23 odd, 25, 29, 35, 37, 41, 43, 45, 47, 51,
> # 53-56 all, 57, 61, 63, 65, 66, 67, 73, 81, 83,
> # 85, 87, 89, 93, 95-98 all, 101, 105, 109, 111,
> # 115, 119, 123, 125, 127

_____ Lesson 9.4 – Properties of Logarithms
> Problems: # 1, 3, 5, 7, 8, 9, 11, 13, 15, 17, 19, 21, 23, 41, 43, 45,
> # 47, 51, 55, 59, 63, 67, 71, 73, 75, 79, 83, 87, 90,
> # 93, 97, 101, 103, 105, 107, 113

_____ Lesson 9.5 – Solving Exponential and Logarithmic Equations
> Problems: # 1, 3, 5, 7, 11, 15, 21, 25, 29, 31, 33, 35, 37, 38,
> # 39, 43, 47, 51, 55, 59, 63, 67, 71, 75, 79, 83, 87,
> # 91, 93, 97, 101, 105, 109, 113, 117, 119, 123-131odd

_____ Lesson 9.6 - Applications
> Problems: # 1, 2, 3, 5, 7, 8, 9, 11, 13-27 odd, 29, 33, 37, 47,
> # 61, 65, 69, 71, 73, 75, 79, 81, 83, 84

_____ Chapter 9 Review Exercises
> Problems: # 3, 7, 11, 28, 29, 31, 33, 39, 41, 43, 45, 47, 49, 83,
> # 85, 87, 89, 91, 93, 95, 97, 119, 121, 123, 125,
> # 127, 129, 131, 133, 135, 137, 139, 141,
> Also do 9.6 # 31, 73, 83, 84

Chapter 10 - Conics:

_____ Lesson 10.1 – Circles and Parabolas

Problems: # 1-6 all, 7-13 odd, 15, 19, 23, 27, 31, 35, 39,
43, 45, 47-52 all, 53-81 odd, 85, 87,
89-97 odd

_____ Lesson 10.2 - Ellipses

Problems: # 1-6 all, 7, 11, 15, 17, 19, 23, 27, 29, 31,
33-57 odd

_____ Lesson 10.3 - Hyperbolas

Problems: # 1-6 all, 7-41 odd, 43-48 all

_____ Lesson 10.4 – Solving Nonlinear Systems of Equations

Problems: # 1, 5, 7, 9, 13, 15, 17, 21, 25, 29, 31, 35, 39,
43, 47, 51, 55, 59, 63, 67, 71, 75, 79,
81, 83, 87

_____ Chapter 10 Review Exercises

Problems: # 9, 11, 13, 15, 17, 19, 21, 23, 27, 31, 33, 35, 36,
41, 43, 45, 47, 48, 55, 57, 59 60, 61,
Do also 10.1 #93

Chapter 11 – Sequences, Series, and the Binomial Theorem:

_____ Lesson 11.1 – Sequences and Series

Problems: # 1, 3, 5, 9, 13, 15, 19, 21, 23, 27, 29, 33, 37,
39-42 all, 43, 47, 51, 55, 59, 63, 67, 69,
71, 75, 77, 79, 83, 87, 91, 95, 99, 103, 107, 111

_____ Lesson 11.2 – Arithmetic Sequencs

Problems: # 1, 5, 9, 11, 15, 17, 21, 25, 29, 33, 37, 41, 43, 47,
51, 53, 57, 61, 65, 69, 71 75, 79, 83, 87, 89,
93, 97, 101, 102, 103, 104, 107, 111, 113, 117,
119, 121, 123, 131

_____ Lesson 11.3 – Geometric Sequences and Series

Problems: # 1, 5, 9, 13, 17 21, 25, 29, 33, 37, 39, 43, 47,
51, 53, 57, 61, 65, 67-70 all, 71, 75, 77,
81, 85, 89, 93, 97, 101, 107, 109, 115, 119

_____ Lesson 11.4 – The Binomial Theorem

Problems: # 1-15 odd, 17, 21, 23, 25, 27, 31, 33, 37, 41, 43,
47, 51

_____ Chapter 11 Review Exercises

Problems: # 1, 3, 5, 7, 11, 13, 17, 19, 23, 24, 27, 29, 31, 33, 35,
43, 44, 47, 51, 55, 57, 59, 61, 63, 65, 69, 70,
76, 79, 80, 90, 91, 101, 102
Do also 11.2 #131