

Algebra II 2013-2014

Assignment List

Chapter 1 Equations and Inequalities

Lesson	Assignment	Choice	Total
1.1 Apply Properties of Real Numbers	6 #3-21 odd, 25-29 odd, 33, 35, 41-45 odd, 49, 53, 59, 61	3	25
1.2 Evaluate and Simplify Algebraic Expressions	13 #1-73 every other odd	6	25
1.3 Solve Linear Equations	21 #3-75 every other odd	6	25
1.4 Rewrite Formulas and Equations	30 #5, 7, 11-25 odd, 29-39 odd	4	20
1.5 Use Problem Solving Strategies and Models	37 #3-33 odd	4	20
1.6 Solve Linear Inequalities	44 #3-59 every other odd	5	20
1.7 Solve Absolute Value Equations and Inequalities	55 #7-79 every other odd	1	20
1.Review	65	20	20
1.Test	Test #1-26		100

Chapter 2 Linear Equations and Functions

Lesson	Assignment	Choice	Total
2.1 Represent Relations and Functions	76 #3-39 odd, 43, 47	4	25
2.2 Find Slope and Rate of Change	86 #3-23 every other odd, 25-35 odd, 39, 43, 47	5	20
2.3 Graph Equations of Lines	93 #1-69 every other odd	2	20
2.4 Write Equations of Lines	101 #1-57 every other odd	5	20
2.5 Model Direct Variation	109 #3, 7-15 odd, 19-31 odd, 35, 39, 43	4	20
2.6 Draw Scatter Plots and Best-Fitting Lines	117 #1-29 odd	5	20
2.7 Use Absolute Value Functions and Transformations	127 #3-37 odd	2	20
2.8 Graph Linear Inequalities in Two Variables	135 #5-37 odd, 41, 43	1	20
2.Review	145	20	20
2.Test	Test #1-21		100

Chapter 3 Linear System and Matrices

Lesson	Assignment	Choice	Total
3.1 Solve Linear Systems by Graphing	156 #3-31 odd, 35, 37	3	20
3.2 Solve Linear Systems Algebraically	164 #3-55 every other odd, 61	5	20
3.3 Graph Systems of Linear Inequalities	171 #3-25 odd, 31, 37	1	15
3.4 Solve Systems of Linear Equations in Three Variables	182 #1, 5, 9, 13, 15, 19, 21, 25, 29, 33, 43	4	15
3.5 Perform Basic Matrix Operations	190 #5-31 odd	6	20

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3.6 Multiply Matrices	199 #5, 9-17 odd, 23-33 odd, 37, 41	1	15
3.7 Evaluate Determinants and Apply Cramer's Rule	207 #3-19 odd, 23-37 odd, 41	2	20
3.8 Use Inverse Matrices to Solve Linear Systems	214 #3-9 odd, 13, 15, 17, 25-33 odd, 43	2	15
3.Review	227	20	20
3.Test	Test #1-22		100

Chapter 4 Quadratic Functions and Factoring

Lesson	Assignment	Choice	Total
4.1 Graph Quadratic Functions in Standard Form	240 #1-57 every other odd	5	20
4.2 Graph Quadratic Functions in Vertex or Intercept Form	249 #1-53 every other odd	1	15
4.3 Solve $x^2 + bx + c = 0$ by Factoring	255 #1-21 every other odd, 27-59 every other odd, 65	4	20
4.4 Solve $ax^2 + bx + c = 0$ by Factoring	263 #3-27 every other odd, 31-47 odd, 51, 55, 59, 65	5	25
4.5 Solve Quadratic Equations by Finding Square Roots	269 #1-39 odd	5	25
4.6 Perform Operations with Complex Numbers	279 #1, 3-75 every other odd	5	25
4.7 Complete the Square	288 #3-55 every other odd, 61, 65	4	20
4.8 Use the Quadratic Formula and the Discriminant	296 #1-73 every other odd	6	25
4.9 Graph and Solve Quadratic Inequalities	304 #3-75 every other odd	6	25
4.10 Write Quadratic Functions and Models	312 #3-39 every other odd, 47, 51	3	15
4.Review	323	20	20
4.Test	Test #1-25		100

Chapter 5 Polynomials and Polynomial Functions

Lesson	Assignment	Choice	Total
5.1 Use Properties of Exponents	333 #3-23 every other odd, 25-43 odd, 49	8	25
5.2 Evaluate and Graph Polynomial Functions	341 #1-49 every other odd, 55, 59	5	20
5.3 Add, Subtract, and Multiply Polynomials	349 #1-61 every other odd	4	20
5.4 Factor and Solve Polynomial Equations	356 #1, 5, 9-29 odd, 33-41 odd, 45, 47, 49, 53, 57, 61, 65	0	25
5.5 Apply the Remainder and Factor Theorems	366 #3-33 odd, 41, 43	2	20
5.6 Find Rational Zeros	374 #3-21 odd, 25-35 odd, 41, 45, 47	1	20
5.7 Apply the Fundamental Theorem of Algebra	383 #1-49 every other odd, 53, 57, 61	4	20
5.8 Analyze Graphs of Polynomial Functions	390 #3-21 odd, 31, 35-41 odd	5	20
5.9 Write Polynomial Functions and Models	397 #1-25 odd, 29	1	15

5.Review	407	20	20
5.Test	Test #1-22		100

Chapter 6 Rational Exponents and Radical Functions

Lesson	Assignment	Choice	Total
6.1 Evaluate n th Roots and Use Rational Exponents	417 #1-31 odd, 35-45 odd, 49-57 odd, 65	2	30
6.2 Apply Properties of Rational Exponents	424 #3, 7, 11, 15-23 odd, 27, 31-39 odd, 43, 47, 53, 57, 61, 65, 67, 71, 75, 79, 85, 87	4	30
6.3 Perform Function Operations and Composition	432 #3-9 odd, 13-37 odd, 43, 45	1	20
6.4 Use Inverse Functions	442 #1, 3-43 every other odd, 45, 47, 49	5	20
6.5 Graph Square Root and Cube Root Functions	449 #3-33 odd, 37	3	20
6.6 Solve Radical Equations	456 #1-53 every other odd, 57, 59	4	20
6.Review	1015	20	20
6.Test	Test #1-25		100

Chapter 7 Exponential and Logarithmic Functions

Lesson	Assignment	Choice	Total
7.1 Graph Exponential Growth Functions	482 #1, 5, 7, 9, 13, 17, 19, 21, 27, 29, 35, 37	3	15
7.2 Graph Exponential Decay Functions	489 #1, 3, 5, 7, 11, 15, 17, 19, 27, 31, 33	4	15
7.3 Use Functions Involving e	495 #1-49 every other odd, 55, 57, 61	4	20
7.4 Evaluate Logarithms and Graph Logarithmic Functions	503 #3, 5-49 every other odd, 59, 61	5	20
7.5 Apply Properties of Logarithms	510 #3-31 every other odd, 33-43 odd, 47, 51, 55, 59, 63, 71, 73	4	25
7.6 Solve Exponential and Logarithmic Equations	519 #3-43 every other odd, 49, 53, 55, 57	5	20
7.7 Write and Apply Exponential and Power Functions	533 #3, 7, 11, 13, 15, 19, 23, 27, 33, 35	5	15
7.Review	543	20	20
7.Test	Test #1-26		100

Chapter 8 Rational Functions

Lesson	Assignment	Choice	Total
8.1 Model Inverse and Joint Variation	555 #3-33 odd, 39, 41	2	20
8.2 Graph Simple Rational Functions	561 #1, 3-31 every other odd, 39, 41	4	15
8.3 Graph General Rational Functions	568 #3-15 odd, 19, 23, 33, 35	4	15
8.4 Multiply and Divide Rational Expressions	577 #3, 7-17 odd, 25-43 odd, 49	2	20
8.5 Add and Subtract Rational Expressions	586 #3, 7, 11, 13, 15, 17, 19, 21, 23, 27, 29, 31, 33, 35, 39, 41	4	20
8.6 Solve Rational Equations	592 #5-27 odd, 31, 35, 37	5	20
8.Review	607	20	20
8.Test	Test #1-22		100

Chapter 9 Quadratic Relations and Conic Sections

<i>Lesson</i>	<i>Assignment</i>	<i>Choice</i>	<i>Total</i>
9.1 Apply the Distance and Midpoint Formulas	617 #3-55 every other odd	6	20
9.2 Graph and Write Equations of Parabolas	623 #3-47 every other odd, 53, 55, 57	5	20
9.3 Graph and Write Equations of Circles	629 #3-55 every other odd, 63, 65	4	20
9.4 Graph and Write Equations of Ellipses	637 #3-35 every other odd, 37, 39, 41, 43, 49, 51	5	20
9.5 Graph and Write Equations of Hyperbolas	645 #3-11 odd, 15-33 odd, 41, 43	3	20
9.6 Translate and Classify Conic Sections	655 #3, 7, 11-19 odd, 23-43 odd, 49	1	20
9.7 Solve Quadratic Systems	661 #3, 5, 9-35 odd, 41	3	20
9.Review	673	20	20
9.Test	Test #1-19		100

Chapter 10 Counting Methods and Probability

<i>Lesson</i>	<i>Assignment</i>	<i>Choice</i>	<i>Total</i>
10.1 Apply the Counting Principle and Permutations	686 #1-57 every other odd, 65, 67, 69	7	25
10.2 Use Combinations and the Binomial Theorem	694 #3-41 odd, 49, 51	3	25
10.3 Define and Use Probability	701 #3-31 odd, 35-41 odd	1	20
10.4 Find Probabilities of Disjoint and Overlapping Events	710 #3-41 odd, 45, 49	3	25
10.5 Find Probabilities of Independent and Dependent Events	721 #3-39 odd	1	20
10.6 Construct and Interpret Binomial Distributions	727 #3-35 odd, 43, 45	1	20
10.Review	737	20	20
10.Test	Test #1-22		100

Chapter 11 Data Analysis and Statistics

<i>Lesson</i>	<i>Assignment</i>	<i>Choice</i>	<i>Total</i>
11.1 Find Measures of Central Tendency and Dispersion	747 #1-21 odd, 27, 29	2	15
11.2 Apply Transformations to Data	753 #1-23 odd	3	15
11.3 Use Normal Distributions	760 #1-33 odd	3	20
11.4 Select and Draw Conclusions from Samples	769 #1-25 odd, 29	1	15
11.5 Choose the Best Model for Two-Variable Data	778 #1-15 odd	7	15
11.Review	787	14	14
11.Test	Test #1-17		100

Chapter 12 Sequences and Series

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Lesson	Assignment	Choice	Total
12.1 Define and Use Sequences and Series	798 #3-63 every other odd, 65	3	20
12.2 Analyze Arithmetic Sequences and Series	806 #3-63 every other odd, 65	3	20
12.3 Analyze Geometric Sequences and Series	814 #3-47 every other odd, 49, 51, 53, 57, 59	3	20
12.4 Find Sums of Infinite Geometric Series	823 #3-33 odd, 37, 39, 42	1	20
12.5 Use Recursive Rules with Sequences and Functions	830 #3-31 odd, 35-39 odd, 43, 45	5	25
12. Review	843	20	20
12. Test	Test #1-20		100

Chapter 13 Trigonometric Ratios and Functions

Lesson	Assignment	Choice	Total
13.1 Use Trigonometry with Right Triangles	856 #1-27 odd, 31, 33, 37	3	20
13.2 Define General Angles and Use Radian Measure	862 #3-51 odd	0	25
13.3 Evaluate Trigonometric Functions of Any Angle	870 #3-37 odd	2	20
13.4 Evaluate Inverse Trigonometric Functions	878 #1-29 odd, 35, 37	3	20
13.5 Apply the Law of Sines	886 #1-25 odd, 29-39 odd, 43, 45	4	25
13.6 Apply the Law of Cosines	892 #3-31 odd, 37-45 odd	0	20
13. Review	901	20	20
13. Test	Test #1-24		100

Chapter 14 Trigonometric Graphs, Identities, and Equations

Lesson	Assignment	Choice	Total
14.1 Graph Sine, Cosine, and Tangent Functions	912 #1-27 odd, 31	0	15
14.2 Translate and Reflect Trigonometric Graphs	919 #3-51 every other odd	2	15
14.3 Verify Trigonometric Identities	927 #3-19 every other odd, 23-33 odd, 37, 41	2	15
14.4 Solve Trigonometric Equations	935 #3-23 odd, 27, 31, 35, 39, 41, 43	3	20
14.5 Write Trigonometric Functions and Models	944 #1-27 odd	1	15
14.6 Apply Sums and Difference Formulas	952 #3-37 odd, 41, 43	0	20
14.7 Apply Double-Angle and Half-Angle Formulas	959 #3-9 odd, 13-23 odd, 31, 33, 37, 39, 43, 45, 51, 53	2	20
14. Review	969	20	20
14. Test	Test #1-20		100