MAT 1033C Homework Assignments
Intermediate Algebra, 3rd custom edition for Valencia College
(7th Edition) by Elayn Martin-Gay

Section	Title	Starting Page	Problem Selections
			Course Prerequisite homework is available online and includes videos and problems from sections 1.3, 1.4, 5.3, and 5.4.
Chapter 2	**Equations, Inequalities, and Problem Solving**		Ch 2 Prerequisite homework is available online and includes videos and basic problems from 2.1 – 2.4.
2.1	Linear Equations in One Variable	p. 56	VRV 1-12 13,17,23,27,31,33,37,39,51,55,57,63,65,77,79,81
2.2	An Introduction to Problem Solving	p. 65	VRV 1-13 odd 11,13,17,19,27,29,31,53
2.3	Formulas and Problem Solving	p. 75	VRV 1-8, 1,3,5,7,9,15,17,19,25,27,29,31,53,55
2.4	Linear Inequalities and Problem Solving	p.87	VRV 1-12 1,3,5,7,15,17,29,31,33,43,45,55,67,69,71
2.5	Compound Inequalities	p.95	VRV 1-10 1,3,5,7,13,15,17,19,23,25,31,33,35,37,39,43,55,71,93
2.6 (instructor optional)	*Absolute Value Equations*	*p. 102*	*VRV 1-6* *1,5,9,15,17,19,21,29,33,37,41,43,53*
2.7 (instructor optional)	*Absolute Value Inequalities*	*p. 107*	*VRV 1-7* *1,5,13,15,17,23,25,27,37,49,59*
Review of 2.1 – 2.7	Review Exercises	p. 113	1 – 30, 33-40, 43, 47-54, 56, 57-63, 65, 85-90, 92-96 *(optional from 2.6 & 2.7: 66-84, 97-101)*
Practice Test	Chapter 2 Practice Test (video solutions provided electronically)	p. 116	1-6, 11, 13-16, 19-24, 26-28 *(optional from 2.6 & 2.7: 7-10, 17, 18)*
Chapter 3	**Graphs and Functions**		*Ch 3 Prerequisite homework is available online and includes videos and basic problems from 3.1, 3.4, and 3.5
3.1	Graphing Equations	p. 128	VRV 1-10 1,5,7,11,13,19,21,25,27,31,33,37,39,45,47,51,81,87,89,91
3.2	Introduction to Functions	p. 142	VRV 1-11 1,3,5,11,13,17,23,25,29,35,37,39,41,43,45,47,51,53,55,59,69,71,73,75,77,87,89,99
3.3	Graphing Linear Functions	p. 152	VRV 1-9 1,3,5,7,13,15,17,19,21,23,25,33,37,41,47,49,55,73,75

3.4	The Slope of a Line	p. 164	VRV 1-13 5,9,11,13,19,21,23,25,29,31,33,35,43,45,61,67,69,71,73,75,79,81,83
3.5	Equations of Lines	p. 175	VRV 1-15 1,3,5,7,11,13,17,19,21,25,29,31,33, 41,43,45,47,49,51,75,78,79
3.6 (instructor optional)	*Graphing Piecewise Defined Functions and Shifting & Reflecting Graphs of Functions*	*p. 185*	*VRV 1-7* *1,5,7,9,11,17,19,21,23,25,27,29,31,37,41,43*
3.7	Graphing Linear Inequalities	p. 190	1,3,5,7,9,21,25,31,49,53
Review of 3.1 – 3.7	Review Exercises	p. 197	1 – 98, 105-110, 113-122 *(optional from 3.6: 99-104, 123-126)*
Practice Test	Chapter 3 Practice Test (video solutions provided electronically)	p. 202	1-20, 22-26 *(optional from 3.6: 27-30)*
5.7 and Chapter 6	***Factoring Cubes; Rational Expressions***		**Ch 5.7 and 6 Prerequisite homework is available online and includes videos and problems from 5.5, 5.6 and 5.7 (difference of squares) as well as a basic review of operations on fractions*
5.7	Factoring by Special Products (Cubes)	p. 314	VRV 5-8, 11 #27,29,33,35,37,55,61
6.1	Rational Functions and Multiplying and Dividing Rational Expressions	p. 351	VRV 1-13 1,3,5,11,13,17,21,25,27,29,33,35,39,41,47,49,51,65,71
6.2	Adding and Subtracting Rational Expressions	p. 359	VRV 1-11 5,9,13,15,17,21,23,29,31,33,39,43,45,49,55,61,67,71,79
6.3	Simplifying Complex Fractions	p. 366	VRV 1-11 1,9,13,17,21,25,29,33,37,45
6.4 *(synthetic division is instructor optional)*	Dividing Polynomials: Long and Synthetic	p. 375	VRV 1-2 3,5,7,9,13,17,29,31,35 *(synthetic division optional: VRV 3, 21, 23,25,27)*
6.5	Solving Equations Containing Rational Expressions	p. 383	VRV 1-12 3,5,7,11,13,19,21,29,37,41,43,45,47

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6.7 *(instructor optional)*	*Variation and Problem Solving*	*p. 402*	*VRV 1-12* *1,5,9,11,15,17,21,23,27,29,33,35,37,39,43*
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Practice Test	Chapter 6 Practice Test (video solutions provided electronically)	p. 338 p. 413	20,23 1-18, 21-27 *(optional from 6.4:19)* *(optional from 6.7:28,29,30)*
Chapter 7	*Rational Exponents, Radicals, and Complex Numbers*		**Ch 7 Prerequisite homework is available online and includes videos and basic problems involving square roots from 1.3, 7.1, 7.3, 7.4 (simplifying and adding like radical expressions)*
5.1 & 5.2	Exponents and Scientific Notation	p.267 p.273	*(This is Ch 7 Prerequisite homework part II online; includes help videos)* 23,33,35,37,57,61,63,77,101,109,117,128 5,7,23,33,41,69,73
7.1	Radicals and Radical Functions	p. 423	VRV 1-14 1,3,9,13,15,19,21,23,27,29,31,33,43,45,47.49,51,61,67,69,73,85,87,89,91
7.3	Simplifying Radical Expressions	p. 439	VRV 1-9 3,7,17,25,29,35,39,41,43,53,57,63,67,73,79,83,89,93,123,125
7.4	Adding, Subtracting, and Multiplying Radical Expressions	p. 445	VRV 1-12 1,9,15,17,21,23,29,37,39,45,47,49,51,53,55,57,61,63,65,69,73
7.5	Rationalizing Denominators of Radical Expressions	p. 451	VRV 1,2, 4,5,6 5,7,11,13,19,21,25,37,39,41,43,47,53
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7.7	Complex Numbers	p. 469	VRV 1-11 1,3,5,9,11,19,25,27,29,33,35,39,41,43,47,57,81,83
7.2	Rational Exponents	p. 430	VRV 1-11 5,7,9,13,15,17,19,21,23,27,29,31,35,37,47,49,55,57,65,73
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Chapter 8	**Quadratic Equations and Functions**		*Ch 8 Prerequisite homework is available online and includes videos and basic problems involving solving quadratic equations by factoring (5.8) and point plotting to graph a quadratic (3.1).*
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8.1	Solving Quadratic Equations by Completing the Square	p. 490	VRV 1-9 7,9,13,15,19,25,29,31,35,39,45,47,57,65,79
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Chapter 4	**Systems of Equations**		*Ch 4 Prerequisite homework is available online and includes videos and problems from 3.1, 3.4, 3.5 (solutions to and graphing linear equations; slopes of parallel lines) and 1.4 (writing algebraic expressions)*
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Final Exam	*Practice Final Exam*	p. 717 *(available through the etext in MyMathLab)*	1-20, 22-23, 25-27, 29-34, 36-42, 44, 46-52 *(optional from 2.6: 21)* *(optional from 2.7: 24)* *(optional from 3.6: 35)* *(optional from 6.7: 45)*