

Math 060/ Summer and Fall 2009/ Introductory Algebra by Robert Blitzer (Custom 1<sup>st</sup> Edition)

Homework Assignments

“eoo” stands for every other odd: 1, 5, 9, 11, 15, ...

Section	Read	Assignment
2.1 The Addition Property of Equality	Pg. 98-109	#1-57 eoo, 65-77 odd, 89; pg.109-110 ( <i>introduction to literal equations</i> )
2.2 The Multiplication Property of Equality	Pg. 111-121	#41-93 eoo, 101-121 eoo, 121,123; pg. 122-124
2.3 Solving Linear Equations	Pg. 124-133	#1-81 eoo; pg. 133-134
2.4 An Introduction to Problem Solving	Pg. 135-147	#5-41 eoo, 49,57,69; pg.148-150
2.5 Solving Linear Inequalities	Pg. 152-162	#5-49 eoo, 53-69 odd, 73, 75, 83, 93, 95, 98; pg.162-164
2.6 Mathematical Models	Pg. 165-168 # 2,4,5,6,7	#7-17 odd, 35, 39, 45-61 odd, 65; pg. 170-173 ( <i>percentages, economics, formulas, degrees Kelvin</i> )
3.1 Critical Thinking	Pg. 181-188	#1-7 odd, 11-21 odd, 31, 45-53 odd, 61-67 odd, 109, 111; pg. 189-194
3.2 Ratio and Proportion	Pg. 195-205	#1-23 odd, 27-55 odd, 65, 66; pg. 205-207 ( <i>note: PE ratio</i> )
3.4 Classic Algebraic Word Problems	Pg. 228-237	#1-25 eoo, 27-45 odd, 50; pg. 238-240 ( <i>uniform motion, interest, mixture, work</i> )
4.1 Linear Equations in Two Variables	Pg. 247-253	#1-29 odd, 35-41 odd, 49, 51, 53; pg. 253-256 ( <i>Descartes history lesson possible</i> )
4.2 Graphing Linear Equations	Pg. 256-265	#1-31 odd, <i>Find the x-intercept, y-intercept, a checkpoint, and then graph # 33-43 odd, Graph #45-51 odd. What do they have in common?</i> <i>Graph #53. What technique did you use to graph this equation?</i> <i>Graph #55-65 odd. What did you notice about these graphs?</i> #87-95 odd, 96, 97, 98; pg. 266-268 ( <i>need graph paper</i> )
4.3 Graphs of Equations and Functions	Pg. 269-276	#1-23 odd, 25-57 odd; pg. 276-279 ( <i>need graph paper</i> )
4.4 The Slope of a Line	Pg. 279-288	#1-43 odd, 45-65 eoo, 67-77 odd, 91-95 all; pg. 288-292 ( <i>need graph paper</i> )
4.5 Equations of Lines	Pg. 292-300	#1-93 odd, 98,100; pg. 300-302 ( <i>need graph paper</i> )
4.6 Linear Inequalities – Two Vars (optional)	Pg. 303-310	#1-41 odd, 55-61 odd, 75-79 all; pg. 311-313 ( <i>need graph paper</i> )

5.1 Solving Systems by Graphing	Pg. 321-329	#1-37 eoo,39,49,51,57-60 all; pg.329-332 <i>(need graph paper)</i>
5.2 Solving Systems by Addition Method	Pg. 332-339	#1-35 odd, 51, 61, 62; pg. 339-341
5.3 Solving Systems by Substitution	Pg. 341-346	#1-31 odd, 37,39,41,47,70,71; pg. 347-348
5.4 Problem Solving using Systems	Pg. 349-352, 355-358 (Ex. 1,2,7,8)	#1-11 odd, 29, 31, 33-39 odd, 47; pg. 358-361 <i>(emphasis on number problems, economics, uniform motion)</i>
5.5 (skip) Systems of Inequalities		
6.1 Adding and Subtracting Polynomials	Pg. 372-378	#1-29 odd, 37-93 eoo, 109; pg. 379-381
6.2 Multiplying Polynomials	Pg. 381-389	#1-153 eoo, 159, 172-175 all; pg. 390-393
6.3 Multiplying Binomials; Special Products	Pg. 393-398	#1-12 all, 13-37 eoo, 39-50 all, 53-73 eoo,75-82 all, 85-113 eoo, 123-125 all; pg. 399-400 <i>(this is a long section for homework)</i>
6.4 Problem Solving	Pg. 401-404	#1-23 odd, 31-37 odd, 41, 43; pg. 405-406 <i>(equations, numbers, consecutive integers, squares)</i>
6.5 Integral Exponents and Dividing Polynomials	Pg. 407-415	#1-37 eoo,39-67 odd, 69-109 eoo, 119, 127, 128, 129; pg. 415-417
6.6 Dividing Polynomials by Binomials	Pg. 417-424	#1-7 odd, 13-19 odd, 25-31 odd, 50-55 all; pg. 424-425
6.7 Exponents and Scientific Notation	Pg. 426-435	#1-69 eoo,73-165 odd, 179, 180; pg. 435-438
7.1 Factoring with Common Factors	Pg. 445-453	#1-31 odd, 33-73 eoo,75-111 odd, 119-123 odd, 127-129 all; pg. 454-456
7.2 Factoring trinomials whose leading coefficient is 1	Pg. 456-462	#1-69 odd, 73-93 eoo,101, 103, 105, 108; pg. 462-463
7.3 Factoring trinomials whose leading coefficient is not 1	Pg. 463-471	#1-67 odd, 73-97 eoo,103, 107; pg. 471-472
7.4 Factoring special forms	Pg. 473-480	#1-93 odd, 97, 99, 105, 109, 111, 113, 118, 119, 120; pg. 480-482 <i>(formula for factoring difference and sum of two cubes will be provided on exam)</i>
7.5 Factoring Strategy	Pg. 482-484	#1-97 eoo,101, 104, 105; pg. 484-485
7.6 Solving Quadratic Equations by factoring	Pg. 485-491	#1-77 eoo,79, 81, 87, 92, 93, 96; pg. 491-493
7.7 Problem Solving	Pg. 493-499	#1-15 odd, 19, 33, 35, 39, 43, 45, 51; pg. 499-501 <i>(number problems, geometry)</i>

8.1 Rational Expressions and simplifying	Pg. 509-522	#25-73 odd; pg. 524-525
8.2 Multiplying and Dividing rational exp.	Pg. 526-531	#1-13 odd, 23-55odd, 59,61,68,70-72 all; pg. 532-534
8.3 Adding and Subtracting Rational Expressions with the same denominator	Pg. 534-538	#1-59 odd, 65-71 odd; pg. 538-540 (Error in book for example #7)
8.4 Adding and Subtracting Rational Expressions with different denominators	Pg. 540-547	#1-47 odd, 63-77 odd, 93, 95, 101, 104, 105; pg. 547-549 ( <i>long section</i> )
8.5 Complex fractions	Pg. 549-555	#1-15 odd, 17-49 eoo, 51-57odd, 63, 67; pg. 555-557 ( <i>resistance application</i> )
8.6 Equations containing rational expressions	Pg. 559-564	#1-25 odd, 29-45 eoo, 53,57; pg. 565-567
8.7 Problem solving	Pg. 567-578	#7-13odd, 21-29odd, 37-45 odd, 47-63 odd, 77,79,80,81; pg. 578-582 ( <i>reciprocals, formulas, resistance application, uniform motion, work</i> )
9.1 Finding Roots	Pg. 589-596	#1-29 odd, 33-53 odd, 61-77 odd, 85, 89, 91; pg.596-598
9.2 Multiplying and Dividing Radicals	Pg. 598-605	#1-59 odd, 65-89 odd, 93,94; pg. 605-606
9.3 Adding and Subtracting Radicals	Pg. 606-610	#1-89 eoo, 91, 95, 96, 97, 98, 100; pg. 610-611
9.5 Rationalizing Denominators	Pg. 617-620	# 1-16 all; pg 624
10.1 Solving Quadratic Equations by the Square root property	Pg. 646-653	#1-65 eoo, 69; pg. 653-655
10.2 Solving Quadratic Equations by Completing the Square	Pg. 655-661	#1-23 odd, 35-41 odd; pg. 661-662
10.3 The Quadratic Formula	Pg. 662-668	#1-19 odd, 21-49 eoo, 63; pg. 669-670
10.4 Applications of Quadratic Equations (optional)	Pg. 670-676	#1-29 eoo; pg. 676-677

See the next page for answers to some of the even numbered problems.

Answers to some of the even numbered problems.

2.2 #100 {11.88}

2.5 #98 {16}

3.2 #66 (writing assignment)

3.4 #50 {80 mph}

4.2 #96, 98 (writing assignments)

4.4 #92 (writing assignment), #94 {200 liters acid}

4.5 #98, 100 (writing assignments)

4.6 #76,78 (writing assignments, graph)

5.1 #58, 60 (writing assignments)

5.2 #62 (writing assignment)

5.3 #70 (writing assignment)

6.2 #172, 174 (writing assignments)

6.3 #124 (writing assignment)

6.6 #50, 52 (writing assignments), #54 {3.5 hours}

6.7 #180 {20 dollars}

7.1 #128 (graph)

7.2 #108 { $y=5/4$ }

7.4 #118 (writing assignment), #120 { $x^6/5$ }

7.5 #104 {-20}

7.6 #92 (writing assignment), #96 { $y^2-2y+5$ }

8.2 #68 (writing assignment), #70 {5 meters, 12 meters, 13 meters}, #72 { $81/(4x^{20})$ }

8.4 #104 (writing assignment)

8.7 #80 (graph)

9.2 #94 { $(4x+5)/(6x+18)$ }

9.3 #96 (writing assignment), #98 { $y(8y+1)(8y-1)$ }, #100 (graph)