### Text: Miller, O' Neill & Hyde, Intermediate Algebra, custom edition (2011), McGraw Hill

Africk, H. (1997). <u>Elementary College Geometry</u> (please note: this book is free for download at http://www.citytech.cuny.edu/academics/deptsites/mathematics/docs/MAT1175Textbook.pdf)

#### Note: The problems in the algebra text followed by a (G) require some basic geometry (area, perimeter, circumference, Pythagorean Theorem)

Session	Section	Homework
1	<b>Algebra</b> <b>4.1</b> (Ex. 1-3) Properties of Integer Exponents and Scientific Notation (pp. 314-	Text: Intermediate Algebra by Miller, o' neill & Hyde <b>p. 321</b> : 11-17 odd, 25-31 odd, 33-55 odd, 61, 63
	316) Algobra	
2	<b>4.1</b> (Ex. 4-7) Properties of Integer Exponents and Scientific Notation (pp. 317-320)	BY MILLER, O' NEILL & HYDE <b>p. 321</b> : 65, 69-83 odd, 85-90 all, 91-103 odd
3	<i>Algebra</i> <b>2.1</b> (Ex. 1-6, 8, 9) Linear Equations in Two Variables (pp. 128-137) <b>2.2</b> (Ex. 2-7) Slope of a Line and Rate of Change (pp. 145-150) <b>2.3</b> (Ex. 1-3) Equations of a Line (pp. 156-159)	TEXT: INTERMEDIATE ALGEBRA BY MILLER, O' NEILL & HYDE <b>p. 140</b> : 15-29 odd <b>p. 153</b> : 13-23 odd, 39-51 odd <b>p. 165</b> : 7-17 odd, 25-29 odd, 33-37 odd
4	<i>Algebra</i> <b>2.3</b> (Ex. 4-8) Equations of a Line (pp. 159-163)	TEXT: INTERMEDIATE ALGEBRA BY MILLER, O' NEILL & HYDE p. 167: 39-73 odd
5	<i>Algebra</i> <b>3.1</b> (Ex. 1-4) Solving Systems of Linear Equations by the Graphing Method (pp. 234-238)	TEXT: INTERMEDIATE ALGEBRA BY MILLER, O' NEILL & HYDE <b>p. 239</b> : 3-7 odd, 15-23 odd, 27, 31
6	<ul> <li>Algebra</li> <li>3.2 (Ex. 1-3) Solving Systems of Linear Equations by the Substitution Method (pp. 243-246)</li> <li>3.3 (Ex. 1, 2, 5) Solving Systems of Linear Equations by the Addition Method (pp. 249-253)</li> <li>3.4 (Ex. 1, 2, 4, 5) Applications of Systems of Linear Equations in Two Variables (Optional) (pp. 256-261)</li> </ul>	TEXT: INTERMEDIATE ALGEBRA BY MILLER, O' NEILL & HYDE p. 248: 9-21 odd, 25, 35-37 all p. 254: 5-11 odd, 15, 19, 23, 27, 29, 35 p. 262: (Optional) 5, 9, 11, 17, 23, 29
7	<ul> <li>Algebra</li> <li>4.2 (Ex. 1-5, 7(optional), 8 only examples with integer coefficients) Adding &amp; Subtracting Polynomials (pp. 323-328)</li> <li>4.3 (Ex. 1-5) Multiplication of Polynomials (pp. 334-337)</li> </ul>	Text: Intermediate Algebra By Miller, o' Neill & Hyde p. 330: 19, 21, 25-29 odd, 37-43 odd, 47, 49, 51-71 odd, 75 (G), 89 (G), 85 (optional), 95 (optional) p. 340: 7, 8, 13, 14, 17-25 odd, 31, 32, 37, 41-53 odd, 93 (G), 97-101 odd (G)

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8	4.4 (Ex. 1-3) Division of Polynomials (pp. 343-347)	<b>p. 351</b> : 9-17 odd, 25, 27-30 all, 31-37 odd
	<b>4.5</b> (Ex. 1-5) The Greatest Common Factor & Factoring by Grouping (pp. 354-358)	<b>p. 360</b> : 9-25 odd, 31-37 odd, 45-49 odd, 71 (G)
9	Algebra	TEXT: INTERMEDIATE ALGEBRA BY MILLER, O' NEILL & HYDE
-	<b>4.6</b> (Ex. 1-9) Factoring Trinomials (pp. 362-371)	<b>p. 373</b> : 9-35 odd, 55-58 all, 87, 88, 91, 93, 94, 95 <b>p. 383</b> : 11-17 all 59, 60, 95 (G) 96 (G)
	4.7 (Ex. 1-3) Factoring Binomials (pp. 376-377)	
10	Algebra	
10	<b>4.8</b> (Ex. 1-3, 7, 8) Solving Equations by Using the Zero Product Rule (pp. 388-393)	<b>p. 397</b> : 17-20 all, 25-35 odd, 42, 43, 45, 63 (G), 65 (G), 67 (G), 72 (G), 75 (G)
11	First Examination	
	Algebra	Text: Intermediate Algebra
		BY MILLER, O' NEILL & HYDE
12	<b>5.1</b> (Ex. 3, 4, 6) Rational Expression (pp. 416-422)	<b>p. 424</b> : 31-39 odd, 43, 48, 65-73 odd
	<b>5.2</b> (Ex. 1-3) Multiplication of Rational Expression (pp. 426-428)	<b>p. 429</b> : 11-21 odd, 23-31 odd
	<b>5.3</b> (Ex. 1-9) Addition & Subtraction of Rational Expressions (pp. 431-438)	<b>p. 438</b> . 7-11 000, 33-45 000, 49-57 000, 79 (G),81 (G)
40	Algebra	TEXT: INTERMEDIATE ALGEBRA
13	<b>5 5</b> (Ex. 1.5) Solving Potional Equations (pp. 440.454)	<b>n 455</b> : 9-19 odd 29-37 odd
	Algenia	BY MILLER, O' NEILL & HYDE
14	6.1 (Ex. 1-3) Definition of an nth Root (pp. 492-494)	<b>p. 500</b> : 7-15 odd
	6.3 (Ex. 1, 3-6 only examples with square roots) Simplifying Radical	<b>p. 515</b> : 9, 13, 17, 19, 21, 25, 33, 35, 37, 45, 47, 49, 53, 55,
	Expressions (pp. 510-514)	61, 65, 67, 69, 71, 77 (G), 79 (G)
	Algebra	TEXT: INTERMEDIATE ALGEBRA
15		BY MILLER, O' NEILL & HYDE <b>n 520</b> :15 10 23 35 37 30 <i>J</i> 1 <i>J</i> 5 51 55 57 70 (G) 81 (G)
	<b>6.4</b> (Ex. 1-4 only examples with square roots) Addition and Subtraction of Padicale (pp. 517, 510)	<b>p. 526</b> . 10, 10, 20, 30, 37, 30, 41, 40, 51, 30, 57, 79 (G), 61 (G)
	<b>65</b> (Ex. 1-7 only examples with square roots) Multiplication of Radicals (on	<b>p. 528</b> : 11, 17, 19, 21, 23, 29, 31, 35, 37, 41, 45, 47, 51, 55.
	522-526)	57, 61, 63, 77, 85 (G), 87 (G)
	Algebra	Text: Intermediate Algebra
16		BY MILLER, O' NEILL & HYDE
	<b>6.6</b> (Ex. 1, 3, 5, 7-9 only examples with square roots) Division of Radicals	<b>p. 538</b> : 11, 13, 17, 31-39 odd, 53, 63, 65, 67, 75-81 odd
	and Rationalization (pp. 531-537)	

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	http://www.envicen.eurly.euu/aeaaemics/aepisites/mathemat	
	Algebra	Text: Intermediate Algebra
17		BY MILLER, O' NEILL & HYDE
	<b>6.7</b> (Ex. 1, 4) Solving Radical Equations (pp. 540-543)	<b>p. 547</b> : 11-16 all, 21, 23, 37-42 all, 63, 64
	Algebra	Text: Intermediate Algebra
		BY MILLER, O' NEILL & HYDE
18	<b>7.1</b> (Ex. 1-3) Square Root Property (pp. 574-575)	<b>p. 580</b> : 2-5 all, 8, 9, 11, 15
	<b>7.2</b> (Ex. 1, 3, 8) Quadratic Formula (pp. 583-592)	<b>p. 595</b> : 9, 12, 15-20 all, 23, 25, 41 (G), 43 (G), 77
19	Midterm Examination	
	Geometry	TEXT: ELEMENTARY COLLEGE GEOMETRY
		BY HENRY AFRICK
20	<b>1.1</b> Lines: pp. 1-6: Ex. A-D	Page 7: 1-5 odd
	7.5 Circumference of a Circle: pp. 331-335: Ex. A, D	Page 339: 1-5 odd, 19-23 odd,
	7.6 Area of a Circle: pp. 342: Ex. A	Page 348: 1, 3, 7, 9
	<b>1.2</b> Angles pp. 8-13: Ex. A-C	Page 14: 1-27 odd
	1.3 Angle Classifications: pp.17-24: Ex. A-F	Page 26: 1-25 odd
	Geometry	TEXT: ELEMENTARY COLLEGE GEOMETRY
21		BY HENRY AFRICK
	1.4 Parallel Lines: pp. 30-38: Ex. A-E	Page 42: 1-25 odd
	6.1 The Area of a Rectangle and Square: pp. 244-247: Ex. A-B, D	Page 249: 1-5 odd, 15, 17
	<b>1.5</b> Triangles: pp. 46-54: Ex. A-F	Page 55: 1-25 odd
	6.3 The Area of a Triangle: pp. 260-264: Ex. A	Page 265: 1, 3, 7, 21, 23
	Geometry	TEXT: ELEMENTARY COLLEGE GEOMETRY
22		BY HENRY AFRICK
	2.1 The Congruence Statement: pp. 67-70: Ex. A-C	Page 71: 1-9 odd
	2.2 The SAS Theorem: pp. 73-78: Ex. A-C	Page 81: 1-23 odd
	Geometry	TEXT: ELEMENTARY COLLEGE GEOMETRY
		BY HENRY AFRICK
23	2.3 The ASA and AAS Theorem: pp. 84-91: Ex. A-D	Page 93: 1-21 odd
_	2.5 Isosceles Triangles: pp.103-109: Ex. A-D	Page 111: 1-13 odd
	2.6 The SSS Theorem: pp. 113-115: Ex. A, B	Page 118: 1-7 odd
	Geometry	TEXT: ELEMENTARY COLLEGE GEOMETRY
24		BY HENRY AFRICK
	3.1 Parallelograms: pp. 130-138: Ex. A-G	Page 139: 1-17 odd
	6.2 The Area of a Parallelogram: pp. 253-257: Ex. A, D, E	Page 258: 1, 9, 11, 13

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	Geometry	TEXT: ELEMENTARY COLLEGE GEOMETRY
25		BY HENRY AFRICK
	<b>4.1</b> Proportions: pp. 157-160: Ex. A, B	Page 161: 1-11 odd
	<b>4.2</b> Similar Triangles: pp. 162-169: Ex. A-H	Page 173: 1-21 odd
	Geometry	TEXT: ELEMENTARY COLLEGE GEOMETRY
26		BY HENRY AFRICK
	<b>4.4</b> Pythagorean Theorem: pp. 182-186: Ex. A-D	Page 192: 1-15 odd
	6.1 The Area of a Rectangle and Square: pp. 244-247: Ex. C	Page 249: 7, 9
	6.2 The Area of a Parallelogram: pp. 253-257: Ex. B	Page 258: 3
	6.3 The Area of a Triangle: pp. 260-264; Ex. C	Page 265: 9-13 odd
	4.5 Special Right Triangles: pp. 197-203; Ex. A-D	Page 207: 1-19 odd
		Page 249: 11, 13
		Page 258. 7
	<b>6.3</b> The Area of a Triangle: pp. 260-264 <sup>.</sup> Ex. D	Page 265: 15, 17
		1 ago 200. 10, 11
27	Third Examination	
	-	
	Geometry	TEXT: ELEMENTARY COLLEGE GEOMETRY
		BY HENRY AFRICK
28	<b>5.1</b> The Trigonometric Functions: pp. 215-222: Ex. A-G	Page 223: 1-19 odd
	<b>5.2</b> Solution of Right Triangles: pp. 225-230: Ex. A-G	Page 234: 11-41odd
	<b>6.2</b> The Area of a Parallelogram: pp. 253-257: Ex. C	Page 258: 5,
	6.3 The Area of a Triangle: pp. 260-264: Ex. B	Page 265: 5, 19
		Page 242: 1-5 odd
29	Review	
30	Final Examination	
50		