

MAT 1275: College Algebra and Trigonometry

Text: McGraw-Hill Custom Textbook containing material from

Intermediate Algebra, 3rd ed., by Miller, O'Neill and Hyde and Trigonometry, 2nd ed. by Coburn

Session	Date	Topic	Chapter, Section, and Pages	Suggested Homework
1	Jan 29 (M) 2018	Properties of Integer Exponents (Review)	Chapter 4, Section 4.1, pages 314-318	p. 321: 11-29 odd, 33,35,41,47,63,67,75
2	Jan 31 (W) 2018	Adding and Subtracting Rational Expressions (Review) Complex Fractions	Chapter 5, Section 5.3, pages 431-438 Chapter 5, Section 5.4, pages 441-446	p.439: 7-23 odd, 27-49 odd p.447: 9-15 odd,17-23 odd, 31,33
3	Feb 5 (M) 2018	Complex Fractions (continued) Fractional Equations (Review)	Chapter 5, Section 5.5 pages 449-455	p.455: 9- 33 odd
4	Feb 7 (W) 2018	Definition of an nth Root Rational Exponents	Chapter 6, Section 6.1, pages 492-498 Chapter 6, Section 6.2, pages 503-507	p. 500: 9-37 odd, 59,65,67,79 p. 508: 11,15,19,25,29,33,41,45,53,65,73,81,93
5	Feb 14 (W) 2018	Simplifying Radical Expressions (Review) Addition and Subtraction of Radicals (Review)	Chapter 6, Section 6.3, pages 510-514 Chapter 6, Section 6.4, pages 517-519	p. 515: 9,13,17,21,25,33,39,55,59,63,79 p. 520: 15,19,23,35,37,41,51,55,57,61,79
6	Feb 20 (Tu) 2018 Monday schedule	Multiplication of Radicals (Review) Division of Radicals and Rationalization (Review) Solving Radical Equations (Review)	Chapter 6, Section 6.5, pages 522-526 Chapter 6, Section 6.6, pages 536-537 (skip examples 4 and 6) Chapter 6, Section 6.7, pages 540-543	p.528: 11,17,19,21,23,25,29,31,35,37,55,57 61,63,67,77,79,87 p.538: 11,13,17,21,31,35,39,53,57,63,67,71,77,81 p. 547: 11-16,21-24,37-42
7	Feb 21 (W) 2018	Complex Numbers	Chapter 6, Section 6.8, pages 550-557	p. 558: 15-27 odd, 31-35 odd, 53-57 odd, 61-69 odd, 81-89 odd
8	Feb 26 (M) 2018	Review and Exam 1		
9	Feb 28 (W) 2018	Quadratic Equations The Square Root Property and Completing the Square	Chapter 4, Section 4.8 pages 388-390 (omit example 2) Chapter 7, Section 7.1, pages 574-579	p. 398: 17-36 all p. 580-581: 3-17 odd, 21-27 odd, 31-53 odd
10	Mar 5 (M) 2018	The Quadratic Formula	Chapter 7, Section 7.2, pages 583-585,588-594 (Derive the quadratic formula)	p. 595: 9-25 odd, 49-55 odd, 69,73,77,81,85
11	Mar 7 (W) 2018	Applications of Quadratic Equations	Chapter 4, Section 4.8, pages 392-394 Chapter 7, Section 7.2, page 586	p. 398: 61,65,67,69,71 p. 595: 41,43,47
12	Mar 12 (M) 2018	Graphs of Quadratic Functions	Chapter 7, Section 7.4, pages 604-612 Chapter 7, Section 7.5, pages 618-621	p. 613: 11-15 odd,19-23 odd, 29-35 odd, 45,47,51-61 odd p. 624: 17-23 odd, 29,31,37,41,43
13	Mar 14 (W) 2018	Distance Formula, Midpoint and Circles Perpendicular Bisector	Chapter 9, Section 9.1, pages 746-751	p. 751: 5,9,11,13,23-31 odd, 39,41,45,59, 61, 63, 67, 71 Supplemental Problems on Perpendicular Bisector

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14	Mar 19 (M) 2018	Systems of Three Linear Equations in Three Variables	Chapter 3, Section 3.6, pages 278-285	p. 286: 11-17 odd, 21, 23, 27, 33-37 odd
15	Mar 21 (W) 2018	Nonlinear Systems of Equations in Two Variables	Chapter 9, Section 9.4, pages 776-780	p. 782: 23-37 odd, 49
16	Mar 26 (M) 2018	Review and Exam 2		
17	Mar 28 (W) 2018	Exponential Functions Logarithmic Functions	Chapter 8, Subsections 8.3.1, 8.3.2, 8.3.4 Chapter 8, Section 8.4, pages 682-685 and example 8, 9.	p. 678: 9-25 odd, 43, 49 p. 690: 11-61 odd
18	Apr 9 (M) 2018	Properties of Logarithms Exponential Equations	Chapter 8, Section 8.5, pages 696-700 Chapter 8, Section 8.7, pages 721-726	p. 701: 17-29 odd, 45-55 odd, 63-69, 77, 79 p. 726: 39-49 odd, 55- 61 odd, 73, 75, 77
19	Apr 16 (M) 2018	Compound Interest (in class activity)	Chapter 8, Section 8.6, pages 704-707 (omit example 3)	p. 712: 11, 13 p. 726: 79, 85
20	Apr 18 (W) 2018	Angle Measure and Special Triangles The Trigonometry of Right Triangles	Chapter 1, Section 1.1, pages 2-6 Chapter 2, Section 2.1, pages 46-50	p. 7: 45-57 odd p. 51: 7-21 odd
21	Apr 23 (M) 2018	Solving Right Triangles Applications of Static Trigonometry	Chapter 2, Section 2.2, pages 54-56 Chapter 2, Section 2.3, pages 63-66	p. 57: 7-47 odd p. 69: 35-38 all
22	Apr 25 (W) 2018	Angle Measure in Radians Trigonometry and the Coordinate Plane	Chapter 3, Section 3.1, pages 90-93 Chapter 1, Section 1.3, pages 22-27	p. 95: 25-39 odd, 43,45,49-61 odd, 67-71 odd p. 28: 25-31 odd, 45,47,55-63 odd, 64,73-79 odd
23	April 30 (M) 2018	Unit Circles	Chapter 3, Section 3.3, pages 108-113	p. 115: 29-35 odd, 37-40 all
24	May 2 (W) 2018	Fundamental Identities and Families of Identities	Chapter 1, Section 1.4, pages 31-35 Chapter 5, Section 5.1, pages 212-214	p. 35: 11-37 odd p. 216: 13-29 odd, 37,43,51
25	May 7 (M) 2018	Trigonometric Equations	Chapter 6, Section 6.3, pages 284-290	p. 292: 13,17,21,25,31,35,43-49 odd, 79, 80
26	May 9 (W) 2018	Review and Exam 3		
27	May 14 (M) 2018	Oblique Triangles and the Law of Sines The Law of Cosines	Chapter 7, Section 7.1, pages 316-322 Chapter 7, Section 7.2, pages 329-332	p. 324: 7-23 odd p. 338: 7-13 odd, 21-29 odd
28	May 16 (W) 2018	Graphs of the Sine and Cosine Functions	Chapter 4, Section 4.1, pages 134-144	p. 145: 1,2, 3, 17-29 odd, 33-39 odd
29	May 21 (M) 2018	Review for Final		
30	May 23 (W) 2018	Final Examination		