

Math 103

Introduction to Technical Math

Introduction:

This course is a survey course of arithmetic, algebra, and geometry. The prerequisite is arithmetic (MTH 02).

Instructional Materials:

Introduction to Technical Mathematics Allyn J. Washington and Mario F. Triola, 4th ed.

Scientific Calculator

Notebook

Protractor

Overall Objectives:

1. Review concepts of arithmetic
2. Learn base units and conversions within the metric system
3. Learn operations with signed numbers
4. Solve simple equations and proportions
5. Review basic geometric figures and do perimeter, area, and volume of those figures
6. Simplify algebraic expressions
7. Factor algebraic expressions
8. Simplify algebraic fractions and work operations with algebraic fractions
9. Solve quadratic equations by factoring and quadratic formula
10. Graph lines and work with formulas of lines

Chapters and Sections to be covered:

Week 1	1.1-1.7	p. 7: 25 – 39 odd, 49 – 61 odd p. 12: 25 – 45 odd p. 16: 13 – 27 odd p. 23: 13 – 23 odd, 49 – 59 odd p. 29: 9 – 45 every other odd (eoo) p. 36: 5 – 49 eoo p. 41: 5 – 61 eoo
Week 2	1.8 – 1.11, 2.1, 2.2	p. 47: 1 – 43 odd p. 51: 21 – 39 odd p. 55: 1 – 17 odd p. 60: 1 – 35 odd p. 70: 1 – 15 odd p. 74: 1 – 37 eoo
Week 3	Test #1, 3.1 – 3.4	p. 94: 1 – 35 odd p. 100: 1 – 29 odd p. 105: 1 – 25 odd p. 108: 1 – 19 odd

Week 4	3.5, 4.1 – 4.3	p. 114: 1 – 27 odd p. 123: 27 – 45 odd p. 128: 1 – 11 odd, 21 – 35 odd p. 134: 1 – 29 odd, 37 – 49 odd
Week 5	Test #2, 5.1 – 5.2	p. 145: 1 – 43 odd p. 149: 1 – 21 odd
Week 6	5.3 – 5.6	p. 155: 13 – 31 odd, solve & graph p. 160: 1 – 15 odd p. 166: 9 – 39 odd p. 172: 21 – 39 odd
Week 7	6.1 – 6.4	p. 182: 1 – 35 odd p. 188: 1 – 31 odd p. 197: 1 – 49 odd p. 202: 1 – 33 odd
Week 8	Test #3, 7.1 – 7.3	p. 215: 9 – 19 odd, 29, 31 p. 222: 1 – 35 odd p. 225: 1 – 31 odd
Week 9	7.4, 8.1, 8.2	p. 231: 1 – 21 odd p. 241: 1 – 31 odd p. 247: 17 – 37 odd
Week 10	8.3, Review	p. 254: 1 – 33 odd p. 261: 1 – 53 odd
Week 11	Test #4, 9.1, 9.2	p. 270: 25 – 51 odd p. 277: 9 – 41 odd
Week 12	9.3 – 9.5	p. 283: 13 – 29 odd p. 287: 9 – 35 odd p. 296: 1 – 19 odd
Week 13	10.1, 10.2, 11.1	p. 306: 1 – 35 odd p. 312: 5 – 23 odd p. 344: 9 – 19 odd
Week 14	11.2, 11.3, 13.2, 13.3	p. 349: 1 – 27 odd p. 357: 1 – 13 odd, 17, 19 p. 395: 1 – 19 odd p. 401: 1 – 15 odd
Week 15	Test #5	