

Math 0031 Schedule and Practice Problems

Based on a Monday/Wednesday/Friday schedule

January 10: Introduction to Graphing

1.1 (p.14) Numbers 7, 11-21 odd, 27, 33, 37, 43-51 odd, 57-65 odd, 75-95 odd

January 12: Functions and Graphs

1.2 (p.27) Numbers 5, 7, 14, 19-27 odd, 31-35 odd, 45-51 odd, 59-63 odd, 67-69, 79-87 odd

January 14: Linear Functions, Slopes and Applications

1.3 (p.44) Numbers 1-7 odd, 8, 9, 23-35 odd, 41-47 odd, 55-65 odd, 71-77 odd

January 19: Equations of Lines and Modeling

1.4 (p.59) Numbers 1-43 odd, 47, 48, 52, 53, 56, 63, 65

January 21: Linear Equations, Functions, Zeros and Applications

1.5 (p.74) Numbers 25-85 odd

January 24: Solving Linear Inequalities

1.6 (p.83) Numbers 9-21 odd, 31-41 odd, 45-51 odd

Chapter 1 Review and Chapter 1 Test pp. 91-96

January 26: Increasing Decreasing and Piecewise Functions

2.1 (p.106) Numbers 13-33 odd, 39-47 odd, 61, 63

January 28: The Algebra of Functions

2.2 (p.116) Numbers 1-5 odd, 21-31 odd, 47, 53-69 odd

January 31: The Composition of Functions

2.3 (p.124) Numbers 5-15 odd, 25-35 odd, 41, 43, 49, 51

Mid-Chapter Mixed Review p.125

February 2: Symmetry and Transformations

2.4 (p.132) Numbers 15-31 odd, 39-47 odd

2.5 (p.144) Numbers 1-21 odd, 37-43 odd, 49-52

February 4: Variation and Application

2.6 (p.152) Numbers 5-11 odd, 15-38 odd

Chapter 2 Review and Chapter Test pp. 162-166

February 7: The Complex Numbers

3.1 (p.172) Numbers 1-87 odd

February 9: Quadratic Equations, Functions, Zeros and Models

3.2 (p.185) Numbers 1-91 odd, 95-107 odd

February 11: Analyzing Graphs of Polynomial Functions

3.3 (p.199) Numbers 3-15 odd, 17-24, 31-39 odd, 41-53 odd

Mid-Chapter Mixed Review p.202

February 14: Solving Rational and Radical Equations

3.4 (p.209) Numbers 1-65 odd

February 16: Solving Equations and Inequalities with Absolute Value

3.5 (p.213) Numbers 1-63 odd

Chapter 3 Review and Chapter Test pp. 220-224

February 18: Review

February 21: Exam I

February 23: Polynomial Functions and Models

4.1 (p.235) Numbers 19-26, 27-41 odd, 43-46, 47-55 odd

February 25: Graphing Polynomials

4.2 (p.247) Numbers 13-45 odd

February 28: Polynomial Division: The Remainder and Factor Theorems

4.3 (p.254) Numbers 5-22, 39-48

Mid-Chapter Mixed Review p.256

March 2: Theorems about Zeros of Polynomial Functions

4.4 (p.264) Numbers 1-15 odd, 25-69 odd

March 4: Rational Functions

4.5 (p.281) Numbers 7-12, 13-31 odd

March 14: Rational Functions

4.5 (p.281) Numbers 35-65 odd, 83

March 16: Polynomial and Rational Inequalities

4.6 (p.292) Numbers 1-63 odd, 79

Chapter 4 Review and Chapter Test p.305-310

March 18: Inverse Functions

5.1 (p.319) Numbers 25-31 odd, 47-57 odd, 61-65, 79-85 odd, 91, 92

March 21: Exponential Functions and Graphs

5.2 (p.330) Numbers 5-10, 15, 17, 27-45 odd, 51-75 odd

March 23: Logarithmic Functions and Graphs

5.3 (p.345) Numbers 1-91 odd, 95, 97, 101

Mid-Chapter Mixed Review p.347

March 25: Properties of Logarithms

5.4 (p.355) Numbers 1-75 odd

March 28: Solving Exponential Equations

5.5 (p.365) Numbers 1-61 odd

March 30: Applications and Models: Growth and Decay

5.6 (p.376) Numbers 1-21 odd

Chapter 4 Review and Chapter Test p.388-391

April 1: REVIEW**April 4: EXAM II****April 6: System of Equations in Two Variables**

6.1 (p.405) Numbers 1-6, 31-69 odd

April 8: System of Equations in Three Variables

6.2 (p.414) Numbers 1-15 odd, 25-33 odd

April 11: Matrices and Row Operations

6.3 (p.423) Numbers 7-13 odd, 23-41 odd

April 13: Matrix Operations

6.4 (p.432) Numbers 5, 9, 15-23 odd, 27, 31, 39-45 odd

Mid-Chapter Mixed Review p.435

April 15: Inverse Matrix

6.5 (p.440) Numbers 5, 11-17 odd, 25-37 odd, 41

April 18: Determinants and Cramer's Rule

6.6 (p.448) Numbers 1-7 odd, 23, 27-37 odd

April 20: Systems of Inequalities and Linear Programming

6.7 (p.457) Numbers 1-7, 11, 17, 19, 21, 49-59 odd, 65, 67, 71, 73

April 22: Review**TBA:**

Final Exam (all day sections)