

CHAPTER OVERVIEW

2: Vectors and Math Review Topics

2.1: Review of Trigonometry

2.2: Right Angle Triangle Trigonometry

2.3: Scalars and Vectors

2.4: Coordinate Systems and Components of a Vector

2.5: Algebra of Vectors

2.6: Products of Vectors

2.7: Math Review of Other Topics

2.7.1: Introduction

2.7.2: Geometrical Shapes

2.7.3: Triangles

2.7.4: Finding Angle Measurements

2.7.5: Parallel and Perpendicular Lines

2.7.6: The Rectangular Coordinate Systems and Graphs

2.7.7: Solving Linear Equations and Inequalities

2.7.8: Solving Quadratic Equations

2.7.9: Solving a System of Linear Equations Using The Substitution Method

2.7.10: Solving a System of Linear Equations Using the Elimination Method

2.7.11: Solving a System of Linear Equations with Cramer's Rule

2.7.12: Functions

2.7.13: Basic Functions

2.7.14: Trigonometric Functions

2.7.15: Exponential and Logarithmic Functions

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2.7.17: The Derivative as a Function

2.7.18: Derivatives and the Shape of a Graph

2.7.19: Differentiation Rules

2.7.20: Applications- Rates of Change, Linear Approximation, Calculating Uncertainty, Maxima and Minima, Optimization

2.7.21: Anti derivatives and integrals

2.7.22: Integrals

2.7.23: Anti-derivatives

2.7.24: Physical Applications of Integration

2.7.25: Calculating Centers of Mass and Moments of Inertia

2.7.26: Table of Integrals

2.7.27: Further Vector Topics

2.7.28: Math-vector basics and differential equations

2.E: Practice

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