



Analytic Trigonometry with Applications

By Barnett, Raymond A.; Ziegler, Michael R.; Byleen, Karl E.; Sobacki, Dave

Wiley, 2008. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: 1. Right Triangle Rations.1.1 Angles, Degrees, and Arcs.1.2 Similar Triangles.1.3 Trigonometric Ratios and Right Triangles.1.4 Right Triangle Applications.Chapter 1 Group Activity: A Logistics Problem.Chapter 1 Review.2. Trigonometric Functions.2.1 Degrees and Radians.2.2 Linear and Angular Velocity.2.3 Trigonometric Functions: Unit Circle Approach.2.4 Additional Applications.2.5 Exact Values and Properties of Trigonometric Functions.Chapter 2 Group Activity: Speed of Light in Water.Chapter 2 Review.3. Graphing Trigonometric Functions.3.1 Basic Graphs.3.2 Graphing $y=k+A \sin Bx$ and $y=K+A \cos(Bx+C)$.3.4 Additional Applications.3.5 Graphing Combined Forms.3.6 Tangent, Cotangent, Secant, and Cosecant Functions Revisited.Chapter 3 Group Activity: Predator-Prey Analysis Involving Coyotes and Rabbits.Chapter 3 Review.Cumulative Review Exercise, Chapters 1-3.4. Identities.4.1 Fundamental Identities and Their Use.4.2 Verifying Trigonometric Identities.4.3 Sum, Difference, and Cofunction Identities.4.4 Double-Angle and Half-Angle Identities.4.5 Product-Sum and Sum-Product Identities.Chapter 4 Group Activity: From $M \sin Bt+N \cos Bt$ to $A \sin(Bt+C)$.Chapter 4 Review.5. Inverse Trigonometric Functions; Trigonometric Equations and Inequalities.5.1 Inverse Sine, Cosine, and Tangent Functions.5.2 Inverse Cotangent, Secant, and Cosecant Functions.5.3 Trigonometric Equations: An Algebraic Approach.5.4 Trigonometric Equations and Inequalities: A Graphing Calculator Approach.Chapter 5 Group Activity: $\sin 1/x=0$ and $\sin^{-1} 1/x=0$.Chapter 5 Review.Cumulative Review Exercise, Chapters 1-5.6. Additional Topics: Triangles and...



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