

MA146: Trigonometry

Baker University — Fall 2023

Each of the following comes from the textbook *Trigonometry* by Michael Corral.

Exam 1: Right Angle Trigonometry

- §1.1: Angles
- §1.2: Trigonometric Functions of an Acute Angle
- §1.3: Applications and Solving Right Triangles
- §1.4: Trigonometric Functions of Any Angle
- §1.5: Rotations and Reflections of Angles

Exam 2: General Triangles

- §2.1: The Law of Sines
- §2.2: The Law of Cosines
- §2.4: The Area of a Triangle

Exam 3: Trigonometric Identities

- §3.1: Basic Trigonometric Identities
- §3.2: Sum and Difference Formulas
- §3.3: Double-Angle and Half-Angle Formulas
- Using and Proving General Trigonometric Identities

Exam 4: Radian Measure

- §4.1: Radians and Degrees
- §4.2: Arc Length
- §4.3: Area of a Sector
- §4.4: Linear and Angular Speed

Exam 5: Graphing, Inverse Functions, and Polar Coordinates

- §5.1: Graphing the Trigonometric Functions
- §5.2: Properties of Graphs of Trigonometric Functions
- §5.3: Inverse Trigonometric Functions
- §6.1: Solving Trigonometric Equations
- §6.4: Polar Coordinates