

Introduction to the course, covering basic concepts and objectives. This section includes a list of topics to be covered throughout the semester, such as algebra, geometry, and trigonometry. It also provides information about the course schedule, including lecture times and exam dates.

Chapter 1: Algebra. This chapter covers the fundamentals of algebra, including the properties of real numbers, the order of operations, and the use of variables. It also introduces the concept of linear equations and how to solve them. The chapter concludes with a review of the key concepts and a set of practice problems.

Chapter 2: Geometry. This chapter explores the properties of various geometric shapes, including triangles, quadrilaterals, and circles. It covers theorems related to angles, areas, and perimeters. The chapter also includes a section on coordinate geometry, where students learn how to plot points and lines on a Cartesian plane.

Chapter 3: Trigonometry. This chapter introduces the trigonometric functions, including sine, cosine, and tangent. It covers the unit circle and how to use trigonometric identities to solve problems. The chapter also includes a section on the law of sines and the law of cosines, which are used to solve triangles.

Chapter 4: Applications. This chapter applies the concepts learned in the previous chapters to real-world problems. It includes sections on word problems, word problems involving rates, and word problems involving percentages. The chapter also includes a section on the application of trigonometry to navigation and surveying.

Conclusion and final review. This section provides a summary of the course content and a final review of the key concepts. It includes a list of resources for further study and a set of final review problems. The course concludes with a final exam and a message of encouragement for the students.

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