

Lesson 3 Part (A)

- ❖ **Topic:** A culmination of trigonometric identities. Verifying complex identities.
- ❖ **Standards:**
 - * 4.3 (d) Patterns and Algebra – All students will represent and analyze relationships among variable quantities and solve problems involving patterns, functions, and algebraic concepts and processes.
 - * 4.5 (d) Mathematical Processes – All students will use mathematical processes of problem solving, communication, connections, reasoning, representations, and technology to solve problems and communicate mathematical ideas.
- ❖ **Objectives:**
 - * Students will be able to verify complex trigonometric identities.
 - * Students will be able to determine the appropriate method(s) to determine whether an equation is a trigonometric identity.
 - * Students will be able to use substitution of basic trigonometric identities to simplify more complicated equations.
- ❖ **Materials:**
 - * Magic Square worksheet
 - * Verifying Trigonometric Identities worksheet (homework)
- ❖ **Motivation:**
 - * At the start of the period students will write any homework questions they had on the board and other students will explain/write their solutions. If no students volunteer the teacher will answer the questions.
- ❖ **Procedure:**
 - * Each student will be given a Magic Square worksheet. Students will have the whole period to work on the worksheet.
- ❖ **Closure:**
 - * In the last 15 minutes of class students will get into pairs and check their solutions to the Magic Square.
- ❖ **Homework:**
 - * Verifying Trigonometric Identities worksheet