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| **UNIT INSTRUCTIONAL OBJECTIVES, *Chapter 4, Section 1, Angles and Their Measures*, Pages 312 – 317, 322 – 324. (Note: It will take several class periods to cover all these concepts. Initially, we will talk about the highlighted concepts.)**  **Students will understand and apply the following concepts:**   * Angular measure in degrees, minutes, seconds * Conversion of angles in degrees, minutes, seconds to decimal degrees * Conversion of angles in decimal degrees to degrees, minutes, seconds * Definition of radian measure * Conversion of radians to degrees * Conversion of degrees to radians * Use of the TI-83/84 to do the above conversions * Computation of arc length (radian measure) * Computation of arc length (degree measure). * Use of the unit circle to understand the association between radians and degrees * Computation of area of a sector * Definitions of the 6 trigonometric functions using right triangle trigonometry * Definitions of the 6 trigonometric functions using unit circle trigonometry   **Technology:** Graphing calculator (TI-84) |
| **TUESDAY (8.20.24)**   * **Entry Work:** Find the area of a sector of a circle with a central angle of 240o and a radius of 15 feet. Illustrate the situation. * **Discuss the previously assigned work:**   ***Exercises:*** #35, 36, 43, 45 on pages 318 and 319.  ***Exercises:*** Page 321: #72 a, 72b. Use the formula given in #71.   * **Practice:** Fill out the angles and degrees on a blank unit circle. * **Class Work/Homework:** Test Review \_\_ Radians, Degrees, Arc Length, Area of a Sector, Conversions (To be received in class).   **THURSDAY (8.22.24)**   * **Review for a Test**: Radians, Degrees, Arc Length, Area of a Sector, Conversions to be taken on Monday, 8.26.24. * **Practice:** Fill out the angles and degrees on a blank unit circle. * **Class Work: Read and take notes on pages 322 – 324.** * **Homework:** *Quick Review*, 4.2, page 327, #1 – 10.   **FRIDAY (8.23.24) A-DAY, NO CLASS** |