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| **UNIT INSTRUCTIONAL OBJECTIVES, *Chapter 4, Section 1, Angles and Their Measures*, Pages 312 – 317, 322 – 327.**  **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. * Trigonometric Values for the Special Angles of 30o, 60o, and 45o. * Applications of right triangle trigonometry. * Definitions of the 6 trigonometric functions using unit circle trigonometry.   **Technology:** Graphing calculator (TI-84) |
| **TUESDAY (8.27.24**   * **Test**: Radians, Degrees, Arc Length, Area of a Sector, Conversions   You may use your notes written on one page of paper (8.5 by 11 inches).   * Class Work/Homework:   **Read and take notes on pages 322 – 327.**  *Quick Review*, 4.2, page 327, #1 – 10.  *Exercises*, page 328, #1 – 7, odd.  Trigonometric Review 1.6. Unit Circle The six trigonometric functions of a  right triangle, with an acute angle , are defined by ratios of two sides.  - ppt download  **THURSDAY (8.29.24)**   * Discuss the previously assigned problems. * **Class Work/Homework:** Page 328, #9 – 17 odd, 49, 51, 53, 55.   **FRIDAY (8.30.24)**   * Discuss the previously assigned problems.   9.1 - Algebra II   * **Class Work/Homework:** * Page 328, #19 – 47 odd, 57 * Page 329, #61 * Practice filling out the degrees/radians on a blank unit circle. |