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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** |