**TUESDAY (2.25.25)**

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| * Find the length of an arc subtended by a central angle that is given in degrees in a circle of radius *r*. |
| * Find the length of an arc subtended by a central angle that is given in radians in a circle of radius *r*. |
| * Find the area of a sector with given radius r and the central angle in radians. |
| * Find the area of a sector with given radius r and the central angle in degrees. |

**Review: Finding the arc length and area of a circular sector.**

**TEST (*Finding the Arc Length and Area of a Circular Sector).*** You may use one page of notes written on one sheet of paper, 8.5 by 11 inches, front and back, and your calculator.

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| **New OBJECTIVES \_\_Chapter 4: Section 4.2, Trigonometric Functions of Acute Angles (Pages 322 – 327).** |
| * Distinguish between an oblique and a right triangle. |
| * Use the Pythagorean Triangle to find the 3rd side of a right triangle when given the other 2 sides. |
| * Be able to express a radical answer in simplest radical form. |
| * Find the six trigonometric functions by using the sides of a right triangle. |
| * Be able to find an acute angle in a right triangle by using the inverse trig function of the ratio of the corresponding 2 sides. |
| * Find the six trig functions of the special angles 30, 45, and 90 degrees. Give exact values. |
| * Apply right triangle trigonometry to actual situations. |
| * Distinguish between angles of depression and elevation. |

**Class Work/Homework:**

* Read and take notes on Section 4.2, Trigonometric Functions of Acute Angles, on pages 322 – 327.
* Page 327, ***Quick Review***, #1 – 10.
* Page 328, ***Exercises***, #1, 2, 3 – 7.

**THURSDAY (2.27.25)**

* **Discuss the previously assigned work:** Page 327, *Quick Review*, #1 – 10, and

Page 328, *Exercises*, #1, 2, 3 – 7.

* **Class Work:** Page 328, #8.
* **Homework:** Page 328, #9 – 17 odd.

**FRIDAY (2.28.25)**

* **Homework Check and Discussion of the previously assigned problems:** Page 328, #9 – 17 odd.
* **Class Work/Homework:** Page 328, #10 – 18 even, 29 – 40, 49, 51, 53.