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| **INSTRUCTIONAL OBJECTIVES (**Pages 322 – 327, andpages 381 – 383, ending with Example 4)Students will understand and apply the following concepts:* Definitions of the 6 trigonometric functions using right triangle trigonometry.
* Evaluation of the 6 trigonometric functions with a calculator.
* Evaluation of the 6 trigonometric functions of the special angles (30o, 60o, 45o).
* Application of right triangle trigonometry to actual situations.
* The significance *of angle of depression* and *angle of elevation*.
* The relationship between the pairs of trigonometric cofunctions.

**INSTRUCTIONAL OBJECTIVES, Chapter 4, Section 3****Trigonometry Extended: The Circular Functions (Pages 331 – 339)****INSTRUCTIONAL OBJECTIVES:** * Use the unit circle (with a radius of 1 unit and a center at the origin) and any other circle of radius, r, to evaluate the 6 trigonometric functions for an angle when given a point on its terminal side.
* Use circular trigonometry to find the six trigonometric functions of an angle θ for which you know a point on the terminal side of angle θ.
* Understand that extending trigonometric functions beyond right triangle ratios of acute angles more aptly applies to real world situations where angular measures can be any number, either positive or negative.

Technology: Smart Board, graphing calculator (TI-83 or TI-84)**Technology:** Graphing calculator (TI-83 or TI-84) |
| **TUESDAY (9.24.24)****Discuss the previously assigned homework/classwork:*** Fill in the degrees, radians, and ordered pairs for the special angles on a blank unit circle.
* Find the six trigonometric functions of an angle θ in standard position whose terminal side contains the point (-5, 3). Illustrate the situation.

**Right Triangle Trig Test**: may use your notes, written on one sheet, 8.5 by 11 inches, both sides. **Class Work/Homework:** Page 340 (#3 – 11, 13 – 20).**THURSDAY (9.26.24)****Discuss the previously assigned work:** Page 340 (#3 – 11, 13 – 20).**Class Work:** Page 340 (#25 – 42).**Homework:** Page 341 (#43, 45, 47).**FRIDAY (9.27.24)** **Discuss the previously assigned work:** Page 341 (#43, 45, 47).**Class Work:** Page 341 (#44, 46, 48).**Homework:** Circular Trig Review (15 problems). |