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| **OBJECTIVES** \_Chapter 4: Section 4.3, *Trigonometry Extended* (Pages 331–339). |
| * Find the trigonometric functions of **any** angle, in degrees or in radians.
 |
| * Understand the periodic nature of the trig functions.
 |
| * Define the unit circle as having a center at the origin and a radius equal to one.
 |
| * Fill in the degrees, radians, and ordered pairs on the 16-Point Unit Circle.
 |
| * Use the unit circle as a schematic device.
 |
| * Use circular trigonometric to solve an expanded world of applications, which would be impossible with right triangle trigonometry.
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| * 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.
* **Graph the sine and cosine functions.**
 |

**Technology: Smart** Board, graphing calculator (TI-83 or TI-84) |

**TUESDAY (4.29.25)**

* **Discuss the work assigned previously:**

Page 340, Exercises, #4 – 8, evens, and #12.

Page 340, #25 – 35, odds.

* **Class Work:** Page 341, #44.
* **Homework:** Pages 340 and 341, #37, 39, 41, 43, 45.

**THURSDAY (5.1.25)**

* **Discuss the work assigned previously:** Pages 340 and 341, #37, 39, 41, 43, 45.
* Graph the sine function.
* **Homework:**
* Graph y = 3sin(4(x -30))o + 4
* **Seniors \_Final Exam on Thursday, May 8, during this class period:** Your exam will cover the objectives listed above on this page.

**FRIDAY (5.2.25) A-DAY, NO CLASS**