

Math 105 Topics for Test 4

Next to each topic are problems from the **Chapter 4 Test on page 385**, **Chapter 6 Test on page 520**, and **Chapter 5 Test on page 458** of the Textbook. Study the homework problems from these sections. A complete list of the homework problems is on the course webpage.

- Section 4.4 Exponential and Log Equations (**Ch 4 Test: 6**)
- Section 6.1 Angle Measure (**Ch 6 Test: 1, 2**)
 - Convert Radians to Degrees
 - Convert Degrees to Radians
 - Determine arc length in a given circle
 - Determine the area of a sector in a given circle
- Section 6.2, 6.3 Trigonometric Functions of Right Triangles and Trigonometric Functions of other angles (**Ch 6 Test: 4, 5, 6**)
 - Determine the trig values of an angle in a given triangle from the lengths of the sides.
 - Determine the trig values of any angle in the plane from the terminal side and reference angle.
- Section 5.1, 5.2 The Unit Circle and Trigonometric Functions of real numbers (**Ch 5 Test: 1, 2, 3, 4**)
 - Determine the trig values of any real number from the terminal point and reference number.
- Section 5.3 Trigonometric graphs (**Ch 5 Test: 6, 10**)
 - Determine the amplitude, period and phase shift of the Sine and Cosine graphs
 - Sketch the Sine and Cosine graphs