Pre-Calculus H Chapter 7 Exam Study Guide

Day 1: **NO CALCULATOR PORTION**

-7 – 1, Convert from degree to radians leaving answers in terms of 𝛑 and showing work (2).

- 7 – 1, Convert from radian to degrees and showing work (2).

-7 – 3, 4, Give exact values (ratios) of trigonometric expressions; must draw pictures for credit (7).

-7 – 6, Find exact value of inverse trigonometric expressions; must draw pictures for credit (4).

-7 – 1,Give the number of radians (in terms of 𝛑) in a set amount of revolutions and showing work (1).

-7 – 2, Find the central angle (in radians) given radius of a circle and the intercepted arc and showing work (1).

-7 – 3, Find the sine and cosine of a central angle when the terminal ray contains a certain point; must draw a picture and show work for credit (1).

-7 – 6, Find the exact value of trigonometric expression containing a regular trig. function and an inverse trig. function; must draw picture and show work for credit (1).

-7 – 3, 4, Be able to ACCURATELY graph the sine, cosine, and tangent function from -2𝛑 to 2𝛑. Give the domain and range (1).

Day 2: **CALCULATOR PORTION**

* 7 – 4, 5, Express angles in terms of reference angles; drawing pictures for credit (2).
* 7 – 1, Convert degree measures to radians leaving answers to nearest hundredth and showing work (2).
* 7 – 1, Convert radian measures to degrees to nearest tenth of a degree and showing work (2).
* 7 – 1, Name two angles, one positive and one negative, that are coterminal with a given angle. Could be in degrees or radians. Must show work (1).
* 7 – 1, Write and expression that represents all angles coterminal with a given angle (1).
* 7 – 2, Given the radius of a circle and a sector with a given central angle, find the sectors arc length and area; must show work (1).
* 7 – 2, One apparent size problem. Must find diameter; must show work (1).
* 7 – 3, Name which quadrant a particular angle lies in given inequality conditions. Must draw picture for credit. (2).
* 7 – 3, 4, Name another angle with the same trigonometric ratio as a given angle. Must draw picture (1).
* 7 – 4, 5, Use a calculator to find the value of each trigonometric expression to four decimal places (4).
* 7 – 5, Given one trigonometric ratio for a particular angle and a restricted domain, find the exact value of other trigonometric ratios for the same angle; must draw picture for credit (2).
* 7 – 6, Use a calculator to find the value to the nearest hundredth of a degree of an inverse trigonometric expression (1).
* 7 – 6, Use a calculator to find the value to the nearest hundredth of a radian of an inverse trigonometric expression (1).
* 7 – 6, Use a calculator to find the value of a trig. expression containing a regular trig. function and an inverse trig. function to the nearest hundredth (1).
* 7 – 3, 4, 5, 6State the domain and range of the basic trigonometric functions (1).
* 7 – 6, Explain why we restrict the domain of regular trigonometric functions to obtain inverse trigonometric functions. Explanation should have two key pieces of information (1).