Honors Worksheet #2
Chapter 5

Write the letter for the correct answer in the blank at the right of each problem

1. Change 128.433° to degrees, minutes, and seconds.
   A. 128° 25’ 58’’ B. 128° 25’ 59’’ C. 128° 25’ 92’’ D. 128° 26’ 00’’ 1._____

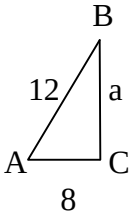
2. Write 43° 18’ 35’’ as a decimal to the nearest thousandth of a degree.
   A. 43.306° B. 43.308° C. 43.309° D. 43.310° 2._____

3. Give the angle measure represented by 3.25 rotations clockwise.
   A. 1170° B. 90° C. 90° D. 1170° 3._____

4. Identify for all coterminal angles between 360° and 360° for the angle 420°.
   A. 60° and 300° B. 30 and 330°
   C. 30° and 330° D. 60° and 300° 4._____

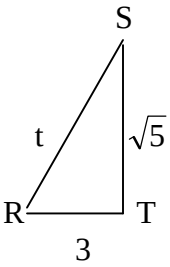
5. Find the measure of the reference angle for 1046°.
   A. 56 ° B. 56° C. 34° D. 34° 5._____

6. Find the value of the tangent for ∠A.
   A. $\frac{2\sqrt{5}}{2}$ B. $\frac{\sqrt{5}}{2}$ C. $\frac{2}{3}$ D. $\frac{\sqrt{5}}{3}$



6._____

7. Find the value of the secant for ∠R.
   A. $\frac{\sqrt{70}}{5}$ B. $\frac{3\sqrt{14}}{14}$ C. $\frac{\sqrt{5}}{3}$ D. $\frac{\sqrt{14}}{3}$



7._____

8. Which of the following is equal to csc è
   A. 1/sinè B. 1/cosè C. 1/tanè D. 1/secè 8._____

9. If cot è = 0.85 , find tan è
   A. 0.588 B. 0.85 C. 1.176 D. 1.7 9._____

10. Find cos (270°).
A. undefined B. 1 C. 1 D. 0 10._____

11. Find the exact value of sec 300°.
A. 2 B. $\frac{2\sqrt{3}}{3}$ C. 2 D. $\frac{2\sqrt{3}}{3}$ 11._____

12. Find the value of csc è for angle è in standard position if the Point at (5, 2) lies on its terminal side.
A. $\frac{\sqrt{29}}{2}$ B. $\frac{2\sqrt{29}}{29}$ C. $\frac{\sqrt{29}}{5}$ D. $\frac{5\sqrt{29}}{29}$ 12._____

13. Suppose è is an angle in standard position whose terminal Side lies in Quadrant II. If sin è = 12/13, find the value of sec è.
A. 5/13 B. 13/15 C. 12/5 D. 13/12 13._____

For Exercises 14 and 15, refer to the figure. The angle of elevation from the end of the shadow to the top of the building is 63° and the distance is 220 feet.

14. Find the height of the building to the nearest foot.
A. 100 ft B. 196 ft C. 432 ft D. 112 ft 14._____

15. Find the length of the shadow to the nearest foot.
A. 100 ft B. 196 ft C. 432 ft D. 112 ft 15._____

16. If 0° x 360°, solve the equation sec x = 2