## **Review #1 for Quarterly – Quarter 3 Addendum**

SHOW ALL WORK on SEPARATE sheet of paper. Solve the following problems. Unless otherwise specified, round **final** answers to the nearest **tenth**.

## Section 6.1

- 19. Find the **number** of triangles with the given information do **not** solve the triangles.
  - i)  $A = 42^{\circ}, a = 5, b = 7$
  - ii)  $A = 173^{\circ}, a = 9, b = 9.1$
  - iii)  $R = 73^{\circ}, r = 8, t = 8$
- 20. Given triangle ABC with  $A = 41^{\circ}$ ,  $B = 72^{\circ}$ , and a = 15, find c. Round **final** answers to the nearest **hundredth**.
- 21. Given triangle ABC with  $B = 56^{\circ}$ , a = 98, and b = 85, solve the triangle. Round **final** answers to the nearest **hundredth**.
- 22. Given triangle ABC with  $A = 71^{\circ}$ , b = 10, and c = 19, find the area of the triangle. Round **final** answers to the nearest **hundredth**.
- 23. From fire tower A, a fire with a bearing of N 78° E is sighted. The same fire is sighted from fire tower B at a bearing of N 51° W. Tower B is 70 miles due east of tower A. What is the distance from tower A to the fire?

# Review #2 for Quarterly – Quarter 3 Addendum

#### Chapter 6: [Answers on Back]

1. Solve each triangle using the Law of Sines. Round all answers to the nearest thousandth.

a. 
$$A = 40^{\circ}$$
,  $B = 12^{\circ}$ ,  $b = 100$   
b.  $C = 150^{\circ}$ ,  $a = 5$ ,  $c = 20$ 

- 2. Find the area of the triangle: a = 3, b = 6,  $C = 130^{\circ}$
- 3. Determine the number of solutions to the triangle: a = 10, b = 35,  $A = 22.5^{\circ}$

# Chapter 6:

1a. $C = 128^{\circ}$	b. A ≈ 7.181°
a ≈ 309.164	B ≈ 22.819°
c ≈ 379.012	b ≈ 15.513

2. 6.894 units<sup>2</sup>

3. no solution – not in the range of sine