Name:_____Date:_____Period:_____

Precalculus - Section 6.1C– Law of Sines
Practice Problems

For Problems #1 – 10, draw and label a triangle with the given information. Solve for any **unknown measures**. Round answers to the nearest hundredth.
(Hint: keep in mind… are there 0, 1, or 2 triangles which fit the specified criteria??)

1.) Solve ΔCAT given: $c = 70, A = 40^o, T = 65^o$

2.) Solve ΔABC given: $a = 15, A = 85^o, b = 25$

3.) Solve ΔABC given: $a = 26, A = 48^o, b = 31$

4.) Solve ΔMAT given: $m = 54, M = 72^o, T = 82^o$

5.) Solve ΔOWL given: $O = 96^o 15', o = 10.2, l = 8.3$

6.) Solve ΔABC given: $a = 5, A = 125^{\circ}, b = 12$

7.) Solve ΔPIG given: $p = 61.37, g = 72.8, G = 18.2^{\circ}$

8.) Solve ΔDOG given: $d = 30, O = 100^{\circ}, G = 65^{\circ}$

9.) Solve ΔJOE given: $e = 33, E = 20^{\circ}, J = 10^{\circ}$

10.) Solve ΔABC given: $a = 2.7, A = 32^{\circ}, b = 3.8$

For Problems #11 – 12, find the **<u>area</u>** of a triangle with the given measures.

11.) Find the area of ΔDEF with $D = 100^{\circ}45', e = 18.2, f = 25$.

12.) Find the area of ΔQED with $Q = 15.7^{\circ}, e = 100, d = 125$.