

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Period: \_\_\_\_\_

Trigonometry: Solving Triangles Review

**Directions:** Use the information given for triangle *ABC* to solve for all missing pieces.

1.  $A = 32^\circ; B = 70^\circ; a = 3.8 \text{ in}$

8.  $A = 26^\circ; a = 4.8 \text{ ft}; b = 9.4 \text{ ft}$

2.  $B = 118^\circ; C = 37^\circ; c = 2.9 \text{ in}$

9.  $C = 60^\circ; a = 10 \text{ cm}; b = 12 \text{ cm}$

3.  $A = 38.2^\circ; B = 63.4^\circ; c = 42 \text{ cm}$

10.  $C = 120^\circ; a = 10 \text{ cm}; b = 12 \text{ cm}$

4.  $A = 24.7^\circ; C = 106.1^\circ; b = 34 \text{ cm}$

11.  $a = 5 \text{ km}; b = 7 \text{ km}; c = 9 \text{ km}$

5.  $A = 60^\circ; a = 12 \text{ in}; b = 42 \text{ in}$

12.  $a = 10 \text{ km}; b = 12 \text{ km}; c = 11 \text{ km}$

6.  $A = 42^\circ; a = 29 \text{ in}; b = 21 \text{ in}$

13.  $C = 119^\circ; a = 6.4 \text{ m}; b = 2.8 \text{ m}$

7.  $A = 51^\circ; a = 6.5 \text{ ft}; b = 7.9 \text{ ft}$

14.  $A = 35^\circ; b = 3.7 \text{ m}; c = 6.2 \text{ m}$

15. Find the area for triangles in #3, 4, 9, 10, 11, and 12.