SECONDARY MATH III
TRIANGLE TRIG
WS 13.4 LAW OF SINES

NAME_____
DATE_____
CLASS_____

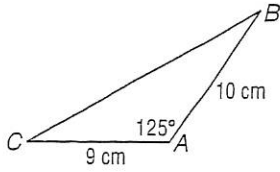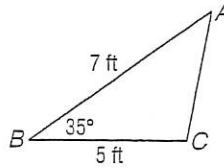## Law of Sines

Find the area of $\triangle ABC$ to the nearest tenth.

1.



2.



3. $A = 35°, b = 3$ ft, $c = 7$ ft

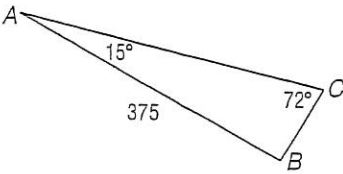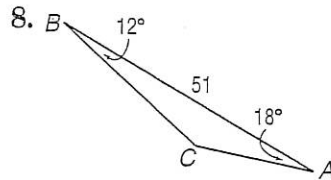4. $C = 148°, a = 10$ cm, $b = 7$ cm

5. $C = 22°, a = 14$ m, $b = 8$ m

6. $B = 93°, c = 18$ mi, $a = 42$ mi

Solve each triangle. Round measures of sides to the nearest tenth and measures of angles to the nearest degree.
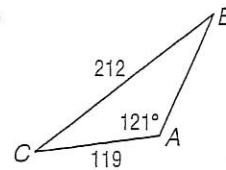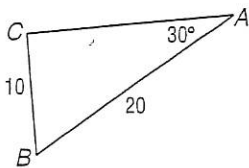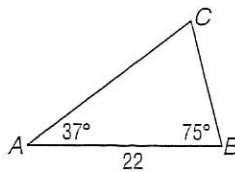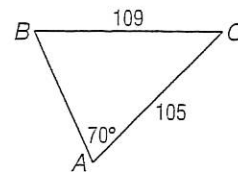
7.



8.



9.



10.



11.



12.



Determine whether each triangle has *no* solution, *one* solution, or *two* solutions. Then solve each triangle. Round measures of sides to the nearest tenth and measures of angles to the nearest degree.

13. $A = 30°, a = 1, b = 4$

14. $A = 30°, a = 2, b = 4$

15. $A = 30°, a = 3, b = 4$

16. $A = 38°, a = 10, b = 9$

17. $A = 78°, a = 8, b = 5$

18. $A = 133°, a = 9, b = 7$

19. $A = 127°, a = 2, b = 6$

20. $A = 109°, a = 24, b = 13$