

DUE: A-Day Monday 04/29/16, B-day Tuesday 04/02/16

Pre-Calculus: Lesson 6.1: Law of Sines Day 1: p. 410 #7-21 odd Day2: p. 410 #31-39 odd

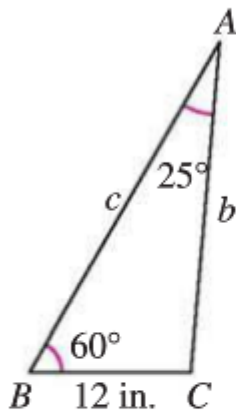
Please complete the assignment using the "tri-fold" method (You may use www.calcchat.com to check your work):

Procedures and Problem Solving

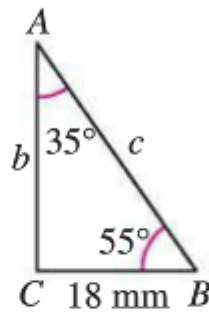


Using the Law of Sines In Exercises 7–26, use the Law of Sines to solve the triangle.

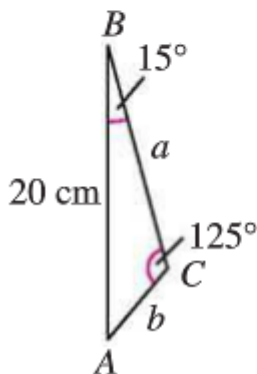
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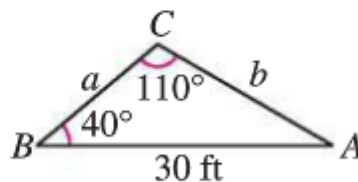
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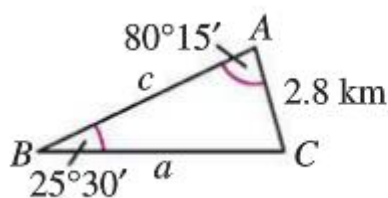
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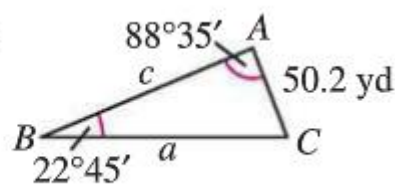
10.



11.



12.



13. $A = 36^\circ$, $a = 8$, $b = 5$
14. $A = 76^\circ$, $a = 34$, $b = 21$
15. $A = 102.4^\circ$, $C = 16.7^\circ$, $a = 21.6$
16. $A = 24.3^\circ$, $C = 54.6^\circ$, $c = 2.68$
17. $A = 110^\circ 15'$, $a = 48$, $b = 16$
18. $B = 2^\circ 45'$, $b = 6.2$, $c = 5.8$
19. $A = 110^\circ$, $a = 125$, $b = 100$
20. $A = 55^\circ$, $B = 42^\circ$, $c = \frac{3}{4}$
21. $B = 28^\circ$, $C = 104^\circ$, $a = 3\frac{5}{8}$

Using the Law of Sines In Exercises 31–34, find the value(s) of b such that the triangle has (a) one solution, (b) two solutions, and (c) no solution.

31. $A = 36^\circ$, $a = 5$
32. $A = 60^\circ$, $a = 10$
33. $A = 10^\circ$, $a = 10.8$
34. $A = 88^\circ$, $a = 315.6$

Finding the Area of a Triangle In Exercises 35–40, find the area of the triangle having the indicated angle and sides.

35. $C = 110^\circ$, $a = 6$, $b = 10$
36. $B = 130^\circ$, $a = 92$, $c = 30$
37. $A = 38^\circ 45'$, $b = 67$, $c = 85$
38. $A = 5^\circ 15'$, $b = 4.5$, $c = 22$
39. $B = 75^\circ 15'$, $a = 103$, $c = 58$
40. $C = 85^\circ 45'$, $a = 16$, $b = 20$