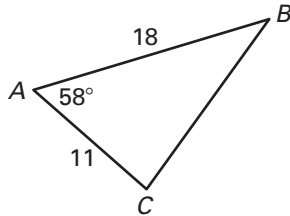


**Practice B**

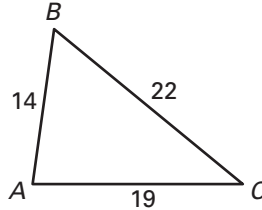
For use with pages 807–812

Solve  $\triangle ABC$ .

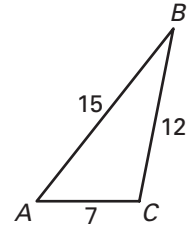
1.



2.



3.



4.  $B = 100^\circ, a = 12, c = 13$

5.  $C = 42^\circ, a = 22, b = 35$

6.  $C = 39.4^\circ, a = 126, b = 80.1$

7.  $a = 21.46, b = 12.85, c = 9.179$

Use the Law of Sines, Law of Cosines, or the Pythagorean theorem to solve  $\triangle ABC$ .

8.  $A = 48^\circ, C = 120^\circ, b = 5$

9.  $B = 15^\circ, C = 135^\circ, b = 15$

10.  $A = 45^\circ, B = 30^\circ, a = 26$

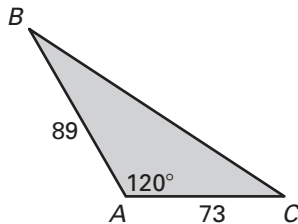
11.  $B = 62^\circ, a = 4, c = 5$

12.  $A = 91^\circ, C = 10^\circ, b = 100$

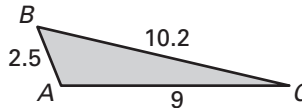
13.  $a = 11, b = 2, c = 12$

Find the area of  $\triangle ABC$ .

14.



15.



16.



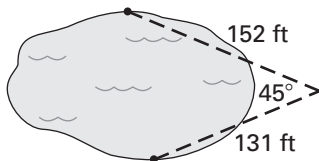
17.  $a = 4.25, b = 1.55, c = 3$

18.  $a = 1.42, b = 0.75, c = 1.25$

19.  $a = 10, b = 10, c = 10$

20.  $a = 11, b = 2, c = 12$

21. **Measuring a Pond** How wide is the pond shown in the figure below?



22. **Softball** The pitcher's mound on a softball field is 46 feet from home plate. The distance between the bases is 60 feet. How much closer is the pitcher's mound to second base than it is to first base?

