

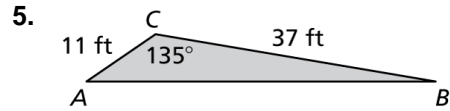
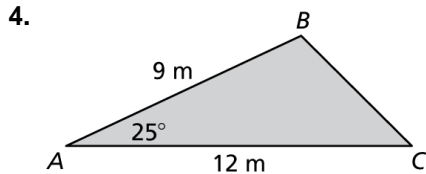
9.7

Practice A

In Exercises 1–3, use a calculator to find the trigonometric ratio. Round your answer to four decimal places.

1. $\cos 115^\circ$ 2. $\tan 95^\circ$ 3. $\sin 148^\circ$

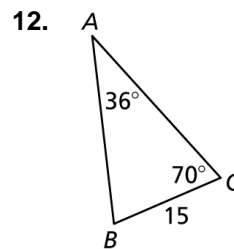
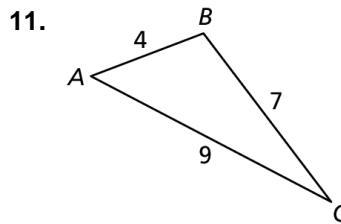
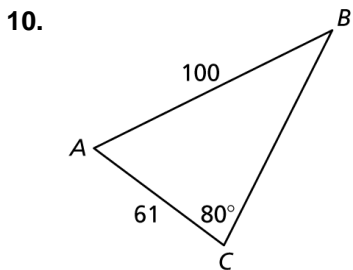
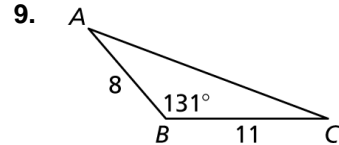
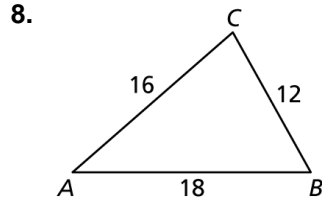
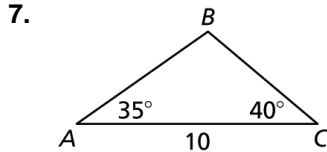
In Exercises 4 and 5, find the area of the triangle. Round your answer to the nearest tenth.



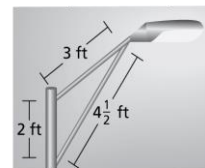
6. Place each triangle case into one of the three categories according to the first step in solving the triangle.

Law of Sines		Law of Cosines		Neither
AAA	AAS	ASA	SSS	SSA SAS

In Exercises 7–12, solve the triangle. Round decimal answers to the nearest tenth.



13. Determine the measure of angle A in the design of the streetlamp shown in the diagram.



9.7

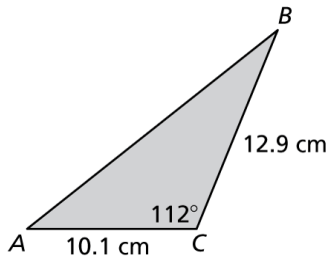
Practice B

In Exercises 1–3, use a calculator to find the trigonometric ratio. Round your answer to four decimal places.

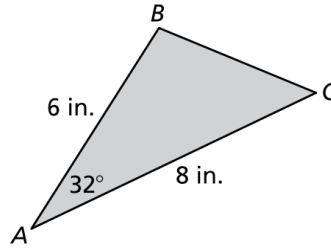
1. $\tan 133^\circ$ 2. $\cos 128^\circ$ 3. $\sin 91^\circ$

In Exercises 4 and 5, find the area of the triangle. Round your answer to the nearest tenth.

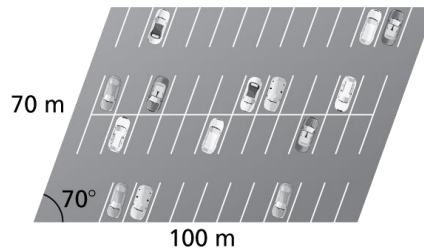
4.



5.

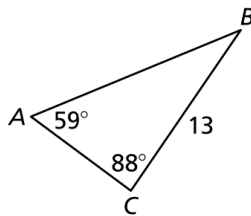


6. A parking lot has the shape of a parallelogram, as shown. Explain how you can find the area of the parking lot without using right triangles. Then find the area of the parking lot.

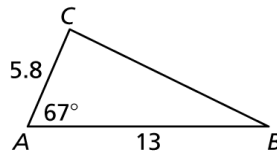


In Exercises 7–12, solve the triangle. Round decimal answers to the nearest tenth.

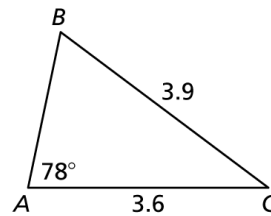
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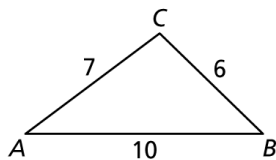
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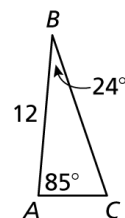
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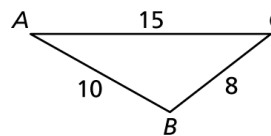
10.



11.



12.



13. A bike frame has a top tube length of 20.75 inches, a seat tube length of 8.9 inches, and a seat tube angle of 71° .

- a. Find the approximate length of the down tube.
b. Find the angle between the seat tube and down tube.

