Use the Law of Sines to find the length of the indicated side rounded to the nearest hundredth.

1) Find BC





Use the Law of Sines to find the measure of the indicated angle to the nearest tenth of a degree.



Use the Law of Sines to solve the oblique triangle; that is, find ALL missing side lengths and angle measures. Round angle measures to the nearest tenth of a degree; round side lengths to the nearest hundredth.



Find the area of each triangle to the nearest tenth.

7) b = 7.7, $m \angle A = 132^{\circ}$, c = 8.28) c = 8.9, $m \angle B = 131^{\circ}$, a = 5.5 7.5 REVIEW: Sketch the right triangle described. Use the Pythagorean Theorem to find the third side. Then find the value of the indicated trig function.

9) Find sin
$$\theta$$
 if cot $\theta = \frac{1}{7}$ 10) Find tan θ if csc $\theta = \frac{4}{3}$

7.6 REVIEW: Solve each right triangle. Round angle measures to the nearest tenth of a degree; round side lengths to the nearest hundredith.



7.7 REVIEW: Draw a diagram that represents the situation and then set up and solve a trigonometric equation. Round solutions to the nearest tenth.

13) A gangplank is a narrow ramp used for boarding a ship. The safe angle of elevation is 20°. Suppose a gangplank is 10 feet long, what is the closest a ship can come to the dock for the gangplank to be used?