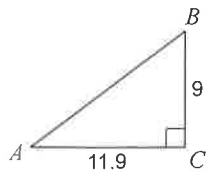


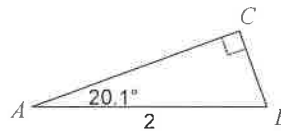
T13 Review

Solve each triangle. Round answers to the nearest tenth.

1)



2)

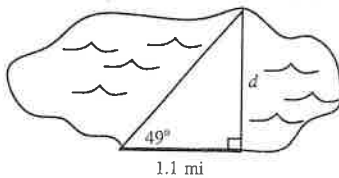


In each problem, angle C is a right angle. Draw the right triangle ABC and label all angles and sides with the correct letters. Solve each triangle rounding answers to the nearest tenth.

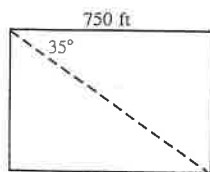
3) $a = 4$, $c = 11$ 4) $c = 11$, $m\angle A = 68.2^\circ$

Draw and label the picture described if a picture is not provided. Then answer the question. Show all equations used to solve the problem.

5) To find the distance d across a pond, a surveyor determined the measurements shown below. How far is it across the pond?



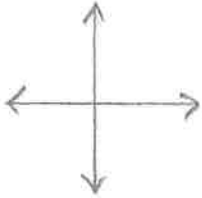
6) To find the length of a diagonal of a rectangular city block, a surveyor determined the measurements shown below. How long is the diagonal?



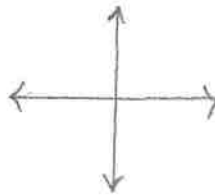
- 7) Standing on top of a 235 foot tall building, you spot your friend on the ground who is 94 feet away from the building.
- What is the angle of depression you had to look to spot your friend?
 - What is the distance between you and your friend?

Given the NORTH-SOUTH lines, draw the following bearings.

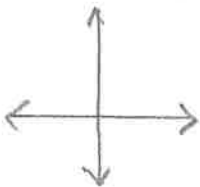
- 8) Bearing of 250°



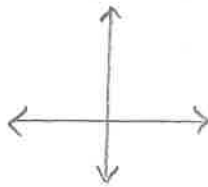
- 9) Bearing of 64°



- 10) N 35° E



- 11) S 315° W



Draw a diagram first, then obtain the desired information.

- 12) A ship leaves port at 1:00 PM and has a bearing of 37° . The ship sails at 25 knots. How many nautical miles north and how many nautical miles east will the ship have traveled by 5:00 PM?
- 13) An airplane traveling at 500 miles per hour has a bearing of N 60° W. After flying for two hours, how far north and how far west has the plane traveled from its point of departure?
- 14) A boat is 25 miles east and 30 miles north of port. Port is at the origin. The captain wants to sail directly to port. What bearing should he take?