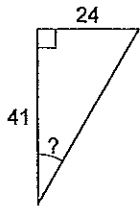


G4: Check-in Quiz #2

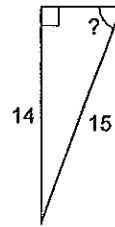
C Level:

Find the measure of the indicated angle to the nearest degree.

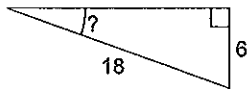
1)



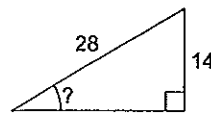
2)



3)

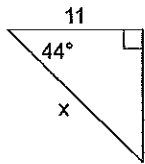


4)

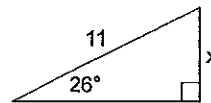


Find the missing side. Round to the nearest tenth.

5)



6)



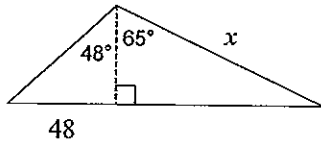
Draw a diagram and solve the problem.

7) A 20-foot ladder leans against a wall so that the base of the ladder is 8 feet from the base of the building. What angle does the ladder make with the ground?

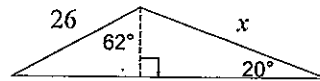
B Level:

Find the length of the side labeled x . Round your answer to the nearest hundredth.

8)

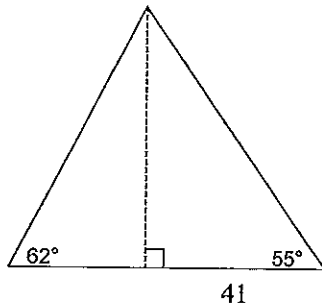


9)

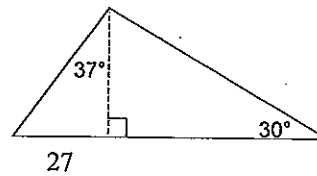


Find the area and perimeter of each triangle. Round your answers to the nearest hundredth.

10)



11)



Challenge problem:

- 12) Joe is standing on top of Marina Towers looking at the Leo Burnett World Headquarters building across the Chicago River. It is 880 feet between buildings. Joe finds the angle of elevation to the top of the Burnett building to be 8 degrees and the angle of depression to the ground level to be 20 degrees. How tall is the Burnett building to the nearest foot?