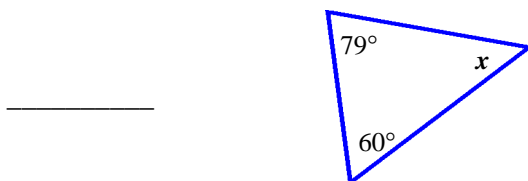
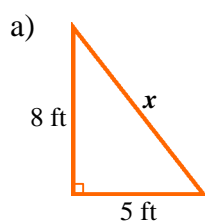


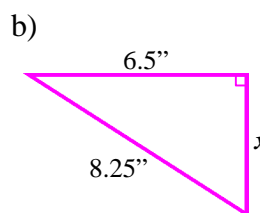
Geometry
 Quiz 3
 Triangles and Volume

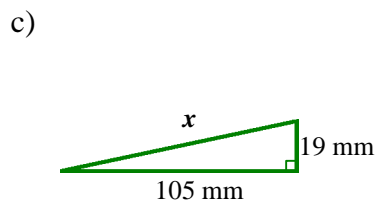
1.) Determine the measure of angle x .

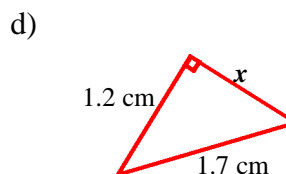


2.) Determine the length of dimension x in each of the given triangles. As necessary, round your answers to the nearest tenth.

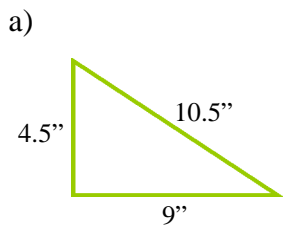




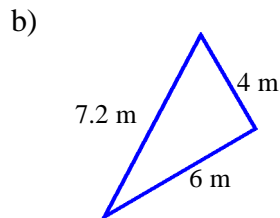




3.) For each triangle shown below, determine if it is a right triangle by using the Pythagorean Theorem.

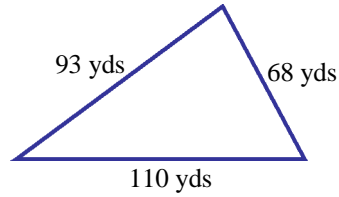


Right Triangle/Not a Right Triangle



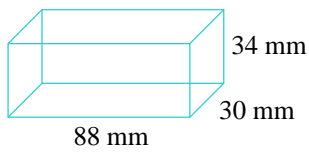
Right Triangle/Not a Right Triangle

4.) Determine the area of this triangle. Include the appropriate unit of measure, and round your answer to the nearest tenth.

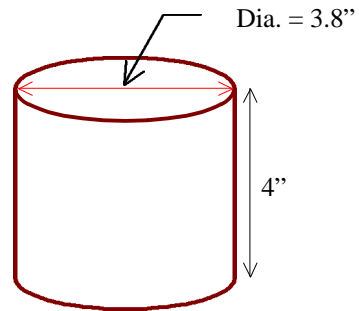


5.) Compute the volume of each shape. Include the correct unit of measure with each answer. Round to the nearest tenth as necessary.

a)



b)



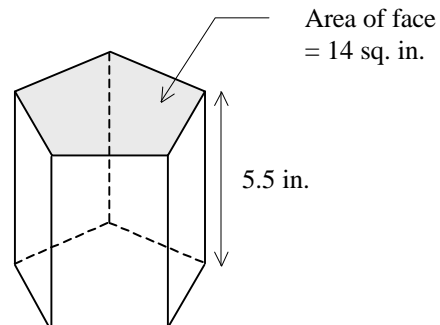
6.) A welder fabricates a rectangular steel tank that is 22" long, 12" tall, and 13" wide.

a) Based on these measurements what is the volume of the tank in cubic inches?

b) What is the volume of the tank expressed in *gallons*?

Use the fact that $1 \text{ gallon} = 231 \text{ cubic inches}$

7.) Determine the volume of this object. Include the correct unit of measure.



Note: A list of some formulas will be provided on the Geometry chapter test. The list includes many area formulas, the Pythagorean Theorem, and Hero's Formula.

You will however be responsible for the following:

- Know how to compute perimeter and circumference.
- Area of a rectangle or square.
- Know how to compute volume.