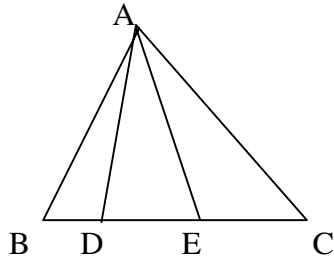


**Math 190 - Math 190ABC Chapter 8 Sample Test**



1. List all the line segments in the figure.
2. If  $DE = 6$  and  $DC = 12$ , then what is point E called?
3. If  $\angle ABC = 17^\circ$ , classify it as obtuse or acute, find its complement, and find its supplement.
4. Draw isosceles triangle  $\triangle PQR$  with  $\angle Q$  the right angle. If  $PQ = 7$  cm then how long is  $RQ$ ?
5. Sketch a regular hexagon. Find the sum of its angles and the measure of each angle of the regular hexagon.
6. Find the area and perimeter or circumference of the following:
  - a) a 3" by 7" rectangle.
  - b) a circle with a diameter of 12".
7. Find the volume and surface area of the following:
  - a) a cube with 8.7 m edges.
  - b) a sphere with a 8.7 cm radius.
  - c) a 10' by 12' by 8' box
8. A gate is an 8 ft by 6 ft rectangle. How long is the diagonal support of the gate?
9. A metal barrel with a height of 5 ft and radius of 1.5 ft weight 75 pounds. If it is filled with water weighing 62.4 pounds per cubic foot, what is the total weight of the barrel?