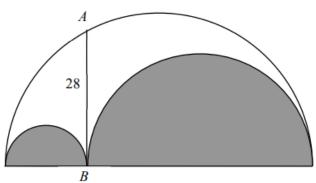


الجمعية المغربية لعلوم الرياضيات

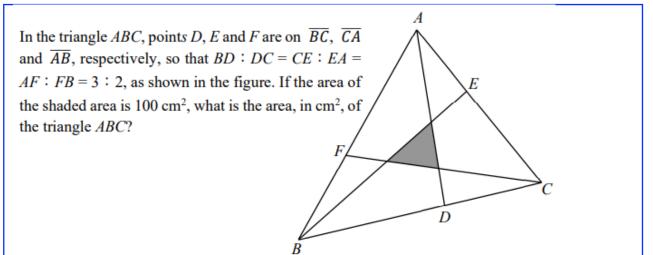
Question 1

Three semicircles are drawn as in the diagram below. Let AB be a segment which is drawn from the diameter to the circumference of the largest semicircle and tangent to two shaded semicircles. What is the area, in cm², of the largest semicircle that is not covered by the smaller semicircles if the length of AB is 28 cm?

(Use
$$\pi = \frac{22}{7}$$
)



Question 2



Question 3

Connect the midpoints and the "1/3-points" of the sides of an equilateral triangle, as shown in Figure 7.7, to create an interior hexagon (shaded). Show that the area of the hexagon is 2/5 the area of triangle.

FIGURE 7.7