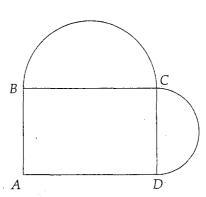
- t) If the circle with center O has a diameter of 9, then what is the area of the circle with center O?
 - (A) 81 π
 - (B) $\frac{9}{2}\pi$
 - (C) $\frac{81}{4}\pi$
 - (D) 18π
 - (E) 9π

- Point K lies outside the circle with center C such that CK = 26. \overline{JK} is tangent to the circle at point J, and the distance from J to K is 2 less than the distance from K to C. What is the circumference of the circle?
 - (A) 10π
 - (B) 15π
 - (C) 20π
 - (D) 22_π
 - (E) 24π

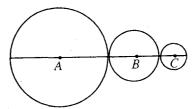
- 3) What is the diameter of a circle with a circumference of 5?
 - (A) $\frac{5}{\pi}$
 - (B) $\frac{10}{\pi}$
 - (C) 5
 - (D) 5π
 - (E) 10π





In the figure above, if semicircular arc BC has length 6π and semicircular arc CD has length 4π , what is the area of rectangle ABCD?

5)



In the figure above, the radius of the circle with center A is twice the radius of the circle with center B and four times the radius of the circle with center C. If the sum of the areas of the three circles is 84π , what is the length of \overline{AC} ?