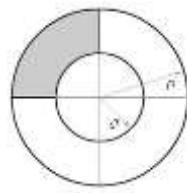


CLASS-X MATHEMATICS
AREAS RELATED TO CIRCLES
HANDOUT MODULE – 2/2

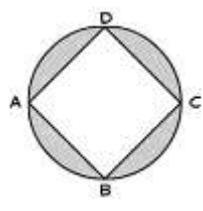
1. Area of the figure = Area of the rectangle + 2 x Area of semi circles.



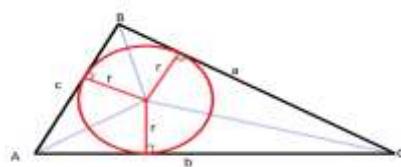
2. Area of the unshaded region = $\frac{3}{4}(\pi r_1^2 - \pi r_2^2)$.



3. Area of the shaded region = $\pi r^2 - a^2$.



4. Inradius = $\frac{\text{Area of triangle } ABC}{\text{Semiperimeter of the triangle}}$
 $r = \frac{A}{S}$ or $r = \frac{a+b-c}{2}$



5. Circumradius(R) = $\frac{abc}{4A}$

