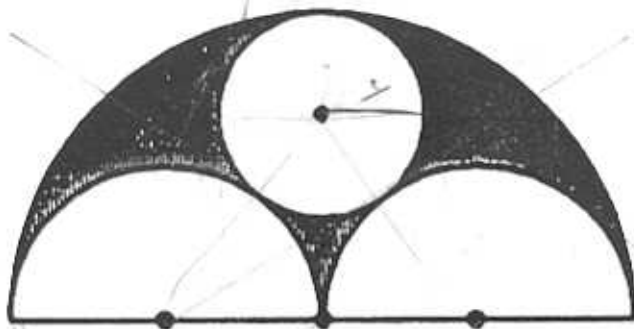Two congruent semicircles lie on the diameter of a third semicircle, each tangent to the other two. A small circle is tangent to all three semicircles. If the area of the shaded region is 45π, what is the length of a radius of the small circle?

NAME Harard Berman

ANSWER

πr^2

$2y = x$

$2 = y$

45