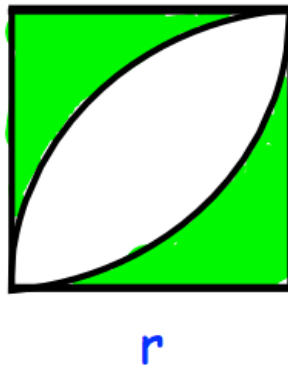


November 17th

In the figure, the arcs are quadrants of a circle.

Calculate the shaded area.



Each shaded area is

the area of the square – area of the quarter circle

$$= r^2 - \frac{1}{4} \pi r^2$$

$$\therefore \text{area} = 2r^2 - \frac{1}{2} \pi r^2$$