

 Let f and g be functions given by f(x) = + sin(πx) and g(x) = 4^{*}. Let R be the shaded region in the first quadrant enclosed by they-axis and the graphs of f and g, and let S be the shaded region in the first quadrant enclosed by the graphs of f and g, as shown in the figure.



c) Find the volume of the solid generated wheS is revolved around the horizontal line y = -1. 4.558 units