

What integral is produced by the washer method for the volume of the solid of revolution obtained by rotating the region bounded by $y=x^2$ and y=4 around the x-axis?

What integral is produced by the washer method for the volume of the solid of revolution obtained by rotating the triangle with vertices (1,1), (2,1), (7,0) around the axis x=37

$$3=(2-y)+R(y)$$
 $R(y)=1+y$

$$V = \int_{0}^{1} \int_{0}^{1} \left(\left(1 + y \right)^{2} - \left(1 \right)^{2} \right) dy$$

$$= \pi \int_{0}^{1} ((1+2y+y^{2})-1) dy$$

$$= \pi \left[(y^{2}+\frac{1}{3}y^{3}) \right]_{0}^{1}$$