Supplementary Homework Exercises for Section 9.3: Volumes (part 2)

Exercises

Determine the volume of the solid of revolution that results from revolving the given region about the indicated axis of revolution.

S1. $y = \frac{x^2}{4}$, $x = 2$, $y = 0$; about y-axis

S2. $y = x$, $y = \sqrt{x}$; about $x = 2$

S3. $y = \sin x$, $y = 0$, $0 \leq x \leq \pi$; about y-axis

S4. $y = \sin x$, $y = 0$, $0 \leq x \leq \pi$; about $x = -1$

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