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TeX code compiled with \documentclass{beamer} using the Amsterdam theme.

\begin{document} \begin{frame} The region \$R\$ is bounded by the curves \$\$ y=x^3 \hskip 20pt y=8 \hskip 20pt x=0 \$\$ Sketch \$R\$. For the following rotational axes, $\{bf set-up\}$ two integrals for the volume of the solid generated by revolving \$R\$ about the indicated axis, one representing the washer method and one the cylindrical shells method. $\left[\left(b \right] \right] = \left[\left(b \right] \right]$ x=-2, \end{itemize} \end{frame} \begin{frame} The region \$R\$ is bounded by the curves \$\$ y=1+\sin(x) \hskip 20pt y=1 \hskip 20pt x=0 \hskip 20pt x=2 \$\$ Sketch \$R\$. For the following rotational axes, {\bf set-up} two integrals for the volume of the solid generated by revolving \$R\$ about the indicated axis, one representing the washer method and one the cylindrical shells method. \begin{itemize} \item[\bf (a)] \$x\$-axis. \item[\bf (b)] \$y\$axis. $\left[\left(c \right) \right] = -1$. $\left[\left(c \right) \right] = -1$. $\left[\left(c \right) \right] = -1$. $\left[\left(c \right) \right] = -1$. (1,0), and (0,1) is rotated about the line x=4. Find the volume of the solid generated by this rotation. $\end{frame} \$ begin{frame} Let \$B\$ be the region bounded by the graphs of \$x=y^2\$ and \$x=9\$. Sketch \$B\$. For each part below, find the volume of the solid that has \$B\$ as its base if every cross section by a plane perpendicular to the \$x\$-axis is \begin{itemize} \item[\bf (a)] a square. \item[\bf (b)] a semicircle with diameter lying on \$B\$. \item[\bf (c)] an equilateral triangle. \end{itemize} \end{frame} \begin{frame} Find the volume of a wedge cut out of a cylinder of radius \$r\$ if the angle between the top and bottom of the wedge is \$\frac{\pi}{6}\$. \end{frame} \end{document}

From:

http://www2.math.binghamton.edu/ - Department of Mathematics and Statistics, Binghamton University

Permanent link:

http://www2.math.binghamton.edu/p/calculus/resources/calculus_flipped_resources/applications/5.3_cylindrical shells tex

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