

# **Math 241: HW 10**

Due on Wednesday, June 28

*Summer '13*

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**Problem 1**

Revolve  $f(x) = \sin(x)$  on  $[0, \pi]$  about the  $x$ -axis and find the volume of the resulting solid. You may use the fact that  $\sin^2(x) = \frac{1 - \cos(2x)}{2}$ .