

Cal Poly Department of Mathematics

Puzzle of the Week

November 3-9, 2011

Evaluate (and justify):

$$\int_0^{\pi} \log(\sin x) dx.$$

Here $\log t$ represents the natural logarithm of t .

Solutions should be submitted to Morgan Sherman:

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before next Friday. Those with correct and complete solutions will have their names listed on the puzzle's web site (see below) as well as in next week's email announcement. Anybody is welcome to make a submission.

<http://www.calpoly.edu/~sherman1/puzzleoftheweek>