

Cal Poly Department of Mathematics

Puzzle of the Week

April 10-16, 2012

Determine, with proof, whether the series

$$\sum_{n=1}^{\infty} \left(e - \left(1 + \frac{1}{n} \right)^n \right)$$

converges or diverges.

Solutions should be submitted to Morgan Sherman:

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before next Tuesday. 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>