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ADAPTIVE THE RULE-APPROXIMATION TO FIND THE AREA OF A SWIMMING POOL

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The management team of a naturalistic village nearly AMATA, Chonburi, Thailand needs to construct a swimming pool that look on the top view like a leaf or heart. Because of the pools irregular shape that all depth is 1.8 m, the approximated size is 15x30 m, the team has to the area for a pool contractor solving the cost for this leaf or heart swimming pool. Since this problem and the main objective of the customer need approximating to a leaf or heart swimming pool cost, sketching shape and analyzing is done. To analyze by applied mathematics, the integration and numerical method (the trapezoidal rule) are solved. Finally, this estimated cost is 16,000.00 Thai baht per m^2 and over all about $108.75 \times 16,000 = 1,740,000.00$ Thai baht that is about 52,000\$

Recent Publications

1. Sarawut Suwannaut and Kanchana Kumnungkit, Analysis of Effective Neurospora Process Model, International Conference in Mathematics and Applications MAHIDOL University 2011, 367-373
2. Tatiporn Pattranurakyothin and Kanchana Kumnungkit, Forecasting Model for Para Rubber's Export Sales, The Third KMITL-TKU Joint International Symposium on Mathematics and Applied Mathematics (MAM2012), 28-29 July 2012, 120-124
3. Kanchana Kumnungkit, Application of Flat Rate or Compound Rate Using, Conference of the International

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4. Kanchana Kumnungkit, Wariya Chatsut, Wittaya Krabuanri, Sawitree Hongsa and Tatiporn Pattranurakyothi, New Computer Program to Simulate a Neurospora Biorhythm, 3rd International conference of supply chain & Technology Innovation proceeding, Sep 5-9, 2016, 16-23
5. K. Kumnungkit, S. Suwannaut, Comparative Neurospora Biorhythms on light VS light with Frq Protein, www.diogenes.bg/ijam/contents/2017-30-1/5/index.html, International Journal of Applied Mathematics, 2017, 59-71. ISSN: 1311-1728 (printed version); ISSN: 1314-8060 (on-line version).

Biography

Kanchana Kumnungkit completed her PhD in 2005 from Mahidol University, Faculty of Science, Department of Mathematics. She is working at Mathematics Department, Faculty of science, King Mongkut's Institute of Technology Ladkrabang, Bangkok, Thailand since 1994. Now She is the head of the department and her interest is in mathematical modelling fields.

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