

TUTORIAL: Teaching with the HP 48G Graphics Calculator

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Abstract

This tutorial will provide a hands-on introduction to the use of the HP 48G graphics calculator to teach mathematics and statistics at the lower tertiary level. The HP 48G graphics calculator is very well suited to use by university students, particularly those in science and engineering courses. With it a user can do all the routine calculations available with an ordinary scientific calculator but, in addition, can carry out symbolic calculations, manage tables of values and to plot graphs. Graphics provide an important aid in both teaching and learning. The pictorial output from the graphics calculator can be used not merely to obtain approximations but also to interpret data and illustrate concepts.

Participants at this tutorial will be given a detailed workbook and examples will be selected from the areas of functions and graphs, calculus, linear algebra and statistics. Furthermore, in addition to the main presenter of each topic, the other members of the tutorial team will be available to provide participants with individual assistance. Although the tutorial will be conducted in English, one team member will be available throughout to answer questions and provide assistance in Chinese (Mandarin).