

**SO YOU WANT ACCURATE GRAPHS IN YOUR
MATHEMATICS PAPER?**

USE GRAPH.EXE SOFTWARE FOR FREE!

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TARGET AUDIENCE: FET – Educators of Mathematics.

DURATION: 2 hours

NO. OF PARTICIPANTS: Size of computer laboratory

MOTIVATION FOR RUNNING THE WORKSHOP

As a Provincial Examiner and SBA moderator, I have observed that despite the work done by government to reform the education system across the country and improve standards in schools, the 2013 SBA moderation reports still recommends that workshops be conducted for educators on how to use technology in setting credible Mathematics question papers.

Many educators in high schools are still deeply challenged in the area of producing error free Mathematics Assessment Tasks, particularly with regard to drawing mathematical diagrams and graphs. This is largely due to low levels of the knowledge and usage of mathematical software programmes. The consequences of this low level of mathematical software education may be long term as well as affect and limit the implementation of the new CAPS.

I also observed that over dependence on past years national question papers have become an unhealthy trend. This dependence stifles creativity and originality that is expected from teachers. A lack of competence in the usage of technology related skills stifled creativity in the construction of original assessment tasks. Some teachers lacking the capacity to develop their own assessment tasks and tests also feel hugely humiliated when they receive negative comments by Provincial and National SBA moderators.

USEFULNESS OF THE WORKSHOP

The workshop will expose educators not only to drawing these functions and graphs but to accurately label, copy and paste into Microsoft word for a professional final product. The workshop is designed for current FET Mathematics teachers who desire to develop skills that would allow them to produce error free question papers by making use of Nationally Accepted Mathematical Software Programme, Graph.exe.

Furthermore the results of this workshop will ensure better assessment tasks and assessment tools.

DESCRIPTION OF THE ACTIVITY

Teacher will download their own Graph.exe software to take home. They will be provided with worksheet material to use during the workshop. Worksheets developed and used during the workshops offers a major and invaluable resource for teachers' self-development in particular as well as hugely benefit the education system in general.

HOW WILL THE TIME BE BROKEN UP?

Summary of time and content	
Length	Topics
20 minutes	Introduction. Downloading the software.
40 Minutes	Drawing trigonometric graphs. Editing on Microsoft word.
30 minutes	Drawing a parabola, straight line and exponential graphs.
30 minutes	Drawing hyperbolic and cubic functions.
