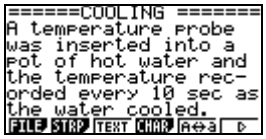
fxNEWS
Support for all Casio fx-9860G models

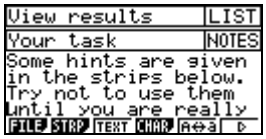
eActivities

This edition of fxNews contains two new eActivities.

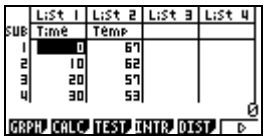
- **COOLING**
- **TRIG~LIM**

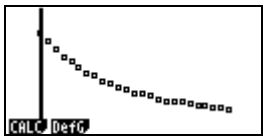
COOLING is an activity designed for students to explore the validity of an exponential function used to model cooling of water.



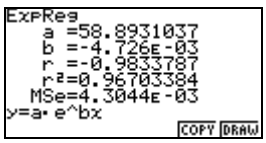


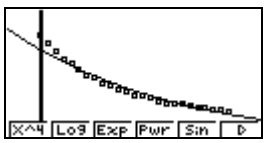
The eActivity contains a set of data from the cooling of a cup of hot water, a task statement and some hints.



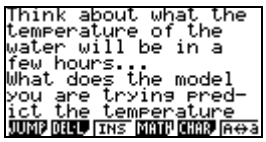


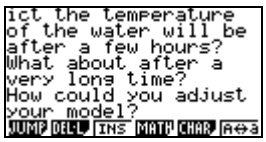
An exponential model might seem appropriate but on application, it seems something is not quite right.



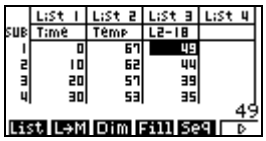


The hints start by encouraging students to consider their model in the light of actual results.

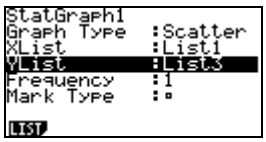


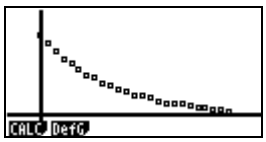


Another hint explains how to work with lists, in this case to subtract room temperature.

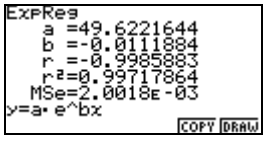


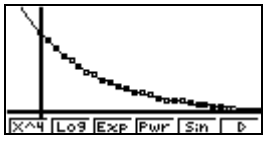
Now graph time v List 3.



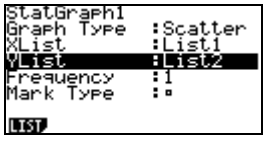


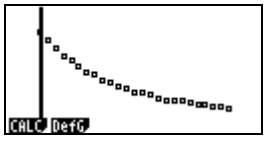
Now the exponential model looks good.



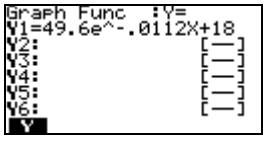


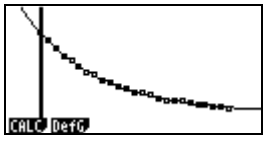
Back to the original data.





The final model is applied to the original data.





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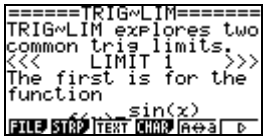
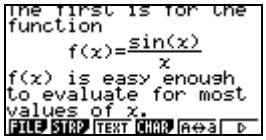
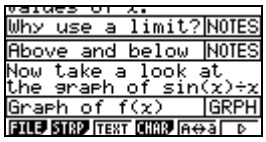
TRIG~LIM is an activity for students to explore the limits

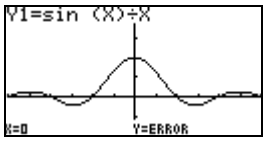
$\lim_{x\to 0}\frac{\sin(x)}{x}$ and $\lim_{x\to 0}\frac{1-\cos(x)}{x}$



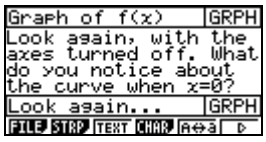


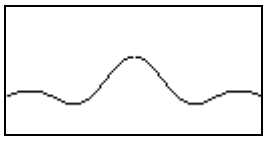
Students are introduced to exploring these and other limits using graphs and tables.



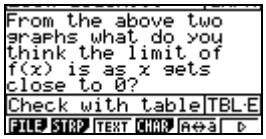


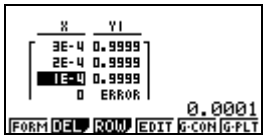
Turning off the axes enables the 'hole' to be seen when $x=0$.

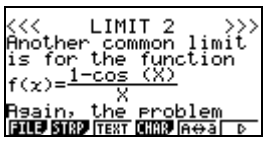




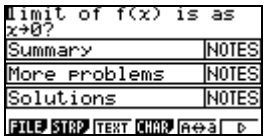
Graph view-windows and table ranges and are preset so that students can focus on the idea of a limit.

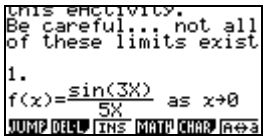






There are also some extra limit problems (with solutions) for students to tackle using the methods of this eActivity.





Easy to customise.

Once in their own fx-9860, all eActivities can be modified by teachers or students to suit their own individual requirements. Examples can be deleted, notes can be edited or added to and so on.

Working with eActivities

After loading into your fx-9860 (see feature 'How to load fxNews from CD into your fx-9860'), choose eACT from the Main Menu. Highlight the FXN07V3 folder, tap EXE, highlight the eActivity you require and tap EXE again.

Scroll down through the eActivity. When you arrive at a 'strip' it will highlight itself. Tap EXE to jump into the application and work on it, just as you would if you had entered through the main menu. Note that each strip is an individual and unique copy of one of the applications available from the Main Menu.

To return to the eActivity (), tap SHIFT then (the arrow key below the tan key).

Once within a strip, to jump to another strip () tap SHIFT then **,** (the comma key below the cos key).

To leave an eActivity tap EXIT. You will be asked whether you want to save changes to the eActivity. To leave the eActivity unchanged, tap F6 (No).

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