

Solving trigonometric equations.

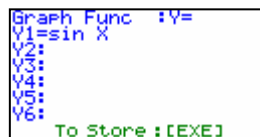
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Select GRAPH mode from the main menu by using the arrow keys to highlight the GRAPH icon or pressing 5.



Example: Solve $\sin x = 0.5$ between $0^\circ \leq x \leq 360^\circ$

In **GRAPH** mode enter in the Y1 space $\sin x$ then press **EXE** to store.



It is also necessary to check that the domain (x co-ordinates) and range (y co-ordinates) are set up for graphing trigonometric graphs, you do this through the **V-Window** **SHIFT** **F3**

By pressing the **F2** key this sets the calculator up for **TRIG**onometric graphs, as shown in the screen capture opposite.

You can alter the settings by overtyping what is already there.

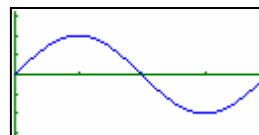


becomes



then press **EXIT**

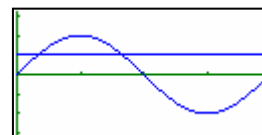
Now press **F6** or **EXE** to draw the sin curve.



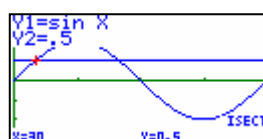
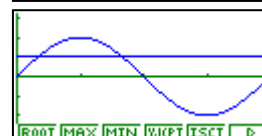
If that produced the same picture as above we can now draw the other part of the equation $y = 0.5$. press **EXIT** and in the Y2 space, type in .5 and then **EXE** to store.



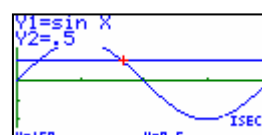
F6 or EXE to draw both graphs.



We can now **G-Solve** by pressing **SHIFT** **F5** then **F5**, this solves the two graphs simultaneously.



The using the right arrow the calculator will search for the next solution. The two solutions are $x = 30^\circ$ and 150°



For further tips, more helpful information and software support visit our website www.monacocorp.co.nz/casio