
Subject: Solving a non-linear equation

Posted by [Reetsspacey](#) on Wed, 02 Apr 2014 14:33:43 GMT

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Hi,

My problem is this: I have a non-linear equation, of the form $y = \exp(x) + x$. I have a large matrix of Y values, and for each cell (Y-value) I would like to calculate a best-fit X. How can I do this???

I have tried defining a function $(\exp(x) + x)$, which I could then get the root of by a number of methods. However I would need to first subtract my Y, before I found the root. The problem then becomes, how can I tell IDL to find the root of $\exp(x) + x - Y$, for a range of Y values?

Eek my brain!
