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<b>09</b>	<b>1f</b>	Solve the equation $\ln x = 2$ . Give your answer correct to four decimal places.	<b>2</b>
$\ln x = 2$ <p>Take exponentials of both sides:</p> $e^{\ln x} = e^2$ $x = e^2$ $= 7.389056099 \dots$ $= 7.3891 \text{ to 4 decimal places.}$			State Mean: <b>1.38</b>

\* These solutions have been provided by [projectmaths](#) and are not supplied or endorsed by the Board of Studies

### Board of Studies: Notes from the Marking Centre

A significant number of candidates did not make any attempt to solve an equation and simply evaluated  $\ln 2$  correct to 4 decimal places. Most students who solved the equation to get  $x = e^2$  went on to correctly evaluate their answer to 4 decimal places. Candidates are reminded that when dealing with questions demanding the presentation of an answer to a certain number of decimal places they should first write down their answer with a couple of extra decimal places and then write the answer to the requested number of places.

Source: [http://www.boardofstudies.nsw.edu.au/hsc\\_exams/](http://www.boardofstudies.nsw.edu.au/hsc_exams/)