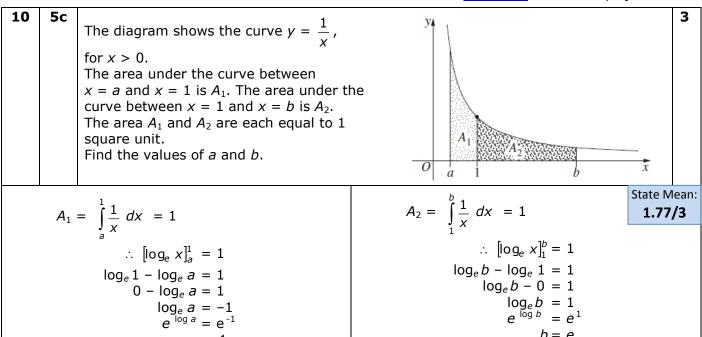
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 $\therefore a = \frac{1}{e} \text{ and } b = e.$



Board of Studies: Notes from the Marking Centre

This part was generally well done with many candidates able to earn at least one mark. A common error, however, was to state that the sum of the areas was 1 and not the correct value of 2. It was noticeable that a number of candidates were unable to solve the log equations by simply writing the expressions in exponential form and therefore missed an easy third mark.

Source: http://www.boardofstudies.nsw.edu.au/hsc_exams/

^{*} These solutions have been provided by projectmaths and are not supplied or endorsed by the Board of Studies