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11	2e	Find $\int \frac{1}{3x^2} dx$.	2
$\int \frac{1}{3x^2} dx = \int \frac{1}{3} x^{-2} dx$ $= \frac{1}{-3} x^{-1} + c$ $= -\frac{1}{3x} + c$			State Mean: 0.91/2

* 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

Responses that brought the coefficient $\frac{1}{3}$ to the front of the integral were generally more successful. The most common error was to integrate $3x^{-2}$ instead of $\frac{1}{3}x^{-2}$.

Another common error was to interpret this as a logarithm integral. Also, the use of the integral sign was poor, being written after the integration had been performed or being left out completely.

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