

[^0]
## Board of Studies: Notes from the Marking Centre

In the better responses, candidates correctly substituted to obtain the correct definite integral in terms of the variable.
Common problems were:

- incorrectly manipulating the substitution in making x the subject, often writing

$$
u=2 x \square 1 ® x=\frac{u \square 1}{2}
$$

- not separating the integrand correctly so as to find the correct primitive
- incorrectly simplifying the definite integral, for example

$$
\int_{1}^{3}\left(\frac{\frac{u+1}{2}}{u^{2}}\right) \frac{d u}{2}=\int_{1}^{3} \frac{u+1}{u^{2}} d u
$$


[^0]:    * These solutions have been provided by projectmaths and are not supplied or endorsed by BOSTES.

