

# 1 Integration Notes

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(I) Standard functions

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$$1. \int (ax + b)^n dx = \frac{(ax + b)^{n+1}}{a(n+1)} + c$$

$$\begin{aligned} 1. & \int (2x^2 - 1)^2 dx \\ &= \int 4x^4 - 4x^2 + 1 dx \\ &= \frac{(ax + b)^{n+1}}{a(n+1)} + c \end{aligned}$$