

DEPARTMENT OF MATHEMATICS

Rediscover your integration skills

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$$(1) \quad \int \frac{dx}{(1-x)(2+x)} \quad (2) \quad \int x^2 e^{x^3} dx$$

$$(3) \quad \int \frac{dx}{x^2+1} \quad (4) \quad \int \frac{dx}{4-x^2}$$

$$(5) \quad \int \frac{dx}{x^2-9} \quad (6) \quad \int \tan x dx$$

$$(7) \quad \int \ln x dx \quad (8) \quad \int \cos^2 x dx$$

$$(9) \quad \int x^2 e^{-x} dx \quad (10) \quad \int \cos^2 x \sin x dx$$

$$(11) \quad \int \sin^3 x dx \quad (12) \quad \int x e^x dx$$

$$(13) \quad \int \frac{2+x}{1+x} dx \quad (14) \quad \int \frac{dx}{\sqrt{16-x^2}}$$

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