



Integral	Substitution $u =$	$du =$	Simplified integral
$\int e^x \sin(e^x) dx$	$u = e^x$	$du = e^x dx$	$\int \sin u du$
$\int \frac{8x}{(4x^2 + 1)^2} dx$			
$\int 18x^2 (3x^3 + 3)^2 dx$			
$\int e^{\cos t} \sin t dt$			
$\int (1 + \tan \theta)^5 \sec^2 \theta d\theta$			
$\int \frac{e^x}{e^x + 1} dx$			
$\int \frac{1}{e^x + 1} dx$			
$\int_0^1 -12x^2 (4x^3 - 1)^3 dx$	$u = 4x^3 - 1$	$du = 12x^2 dx$	$\int_{-1}^3 -u^3 du$
$\int_{-3}^0 \frac{8x}{(2x^2 + 3)^2} dx$			
$\int_0^{\pi/2} \cos(t) \sin(\sin t) dt$			
$\int_{-1}^1 3x^2 \sqrt{x^3 + 5} dx$			