

Integration Review 2017

$\int 2x(x^2 + 2)^3 dx$	$\int 6x^2 e^{x^3} dx$	$\int x^3 \ln x dx$	$\int \frac{1}{16x^2 + 1} dx$	$\int \frac{10}{10x + 5} dx$
$\int_0^1 \frac{2x dx}{(x^2 + 1)^{1/5}}$	$\int \frac{x^3 + 1}{\sqrt{x^4 + 4x}} dx$	$\int \frac{1}{x^2 - 9} dx$	$\int \cos^{10} x \sin x dx$	$\frac{dy}{dx} = \frac{x^2}{y}$ $y(0) = 2$
$\int 3x^2 \sin(x^3) dx$	$\int \frac{3x + 11}{x^2 - x - 6} dx$	$\int \frac{9x^2}{x^3 + 6} dx$	$\int_{-\infty}^{\infty} e^{-5x} dx$	$\int x e^x dx$
$\int_0^5 \frac{1}{x - 5} dx$	$\int 5x^4 e^{x^5} dx$	$\frac{dy}{dx} = 3x^2 y$ $y(0) = 1$	$\int (x + 2) \sin(x) dx$	$\int \frac{2x - 1}{x^2 - x - 6} dx$
$\int \frac{\ln^9 x}{x} dx$	$\int (x^2 + 1) \cos(x^3 + 3x) dx$	$\int \frac{1}{x^2 + 9} dx$	$\int \frac{e^{2x}}{1 + e^{2x}} dx$	$\int \frac{\cos x}{(\sin x)^6} dx$