

Source: [KBhMATH401SubIndex](#)

1 | Intergration

Antiderivatives table

Function	Antiderivative
x^n	$\frac{x^{n+1}}{n+1} + c, x \neq -1$
$af(x)$	$a * (f(x)dx)$
$\frac{1}{x}$	$\ln(\ x\)$
$\sin(at)$	$-\frac{\cos(t)}{a}$
$\cos(at)$	$\frac{\sin(t)}{a}$
e^a	e^a
$\frac{1}{1+(ax)^2}$	$\tan^{-1}(ax)$
$\frac{a}{\sqrt{k^2-(ax)^2}}$	$\sin^{-1}(\frac{ax}{k})$
$\frac{-1}{\sqrt{k^2-(ax)^2}}$	$\cos^{-1}(\frac{ax}{k})$

1.1 | Useful thing

- Intergration by Par