Useful Integrals

$\int \cos(x)dx$	$\sin(x)$
$\int \sin(x)dx$	$-\cos(x)$
$\int x\cos(x)dx$	$\cos(x) + x\sin(x)$
$\int x\sin(x)dx$	$\sin(x) - x\cos(x)$
$\int x^2\cos(x)dx$	$2x\cos(x) + (x^2 - 2)\sin(x)$
$\int x^2\sin(x)dx$	$2x\sin(x) - (x^2 - 2)\cos(x)$
$\int e^{ax}dx$	$\dfrac{e^{ax}}{a}$
$\int xe^{ax}dx$	$e^{ax}\left[\dfrac{x}{a} - \dfrac{1}{a^2}\right]$
$\int x^2 e^{ax}dx$	$e^{ax}\left[\dfrac{x^2}{a} - \dfrac{2x}{a^2} - \dfrac{2}{a^3}\right]$
$\int \dfrac{dx}{\alpha + \beta x}$	$\dfrac{1}{\beta}\ln|\alpha + \beta x|$
$\int \dfrac{dx}{\alpha^2 + \beta^2 x^2}$	$\dfrac{1}{\alpha\beta}\tan^{-1}(\dfrac{\beta x}{\alpha})$