$\int_1^2 (x^2 - 3x + 2)\,\mathrm{d}x$	$-\frac{1}{6}$
$\int_0^3 \lvert 1 - 3x\rvert \mathrm{d}x$	$\frac{65}{6}$
$\int_{-4}^{-2} \frac{1}{x}\mathrm{d}x$	$-\ln 2$
$\int_0^1 \frac{\mathrm{d}x}{1+x^2}$	$\frac{\pi}{4}$
$\int_0^2 \frac{x}{x^2+3x+2}\mathrm{d}x$	$\ln\frac{4}{3}$
$\int_0^\pi \cos x\,\mathrm{d}x$	0
$\int_0^\pi \lvert\cos x\rvert\,\mathrm{d}x$	2
$\int_0^\pi \sin^3 x\,\mathrm{d}x$	$\frac{4}{3}$
$\int_3^7 \frac{x}{x^2-4}\,dx$	$\ln 3$
$\int_0^{\frac{\pi}{2}} \cos x \cdot \sin^2 x\,dx$	$\frac{1}{3}$
$\int_0^1 \frac{\sqrt{x}}{1+\sqrt{x}}\,dx$	$\ln 4 - 1$
$\int_{-1}^1 \frac{\mathrm{d}x}{(1+x^2)^2}$	$\frac{\pi+1}{2}$
$\int_0^{\sqrt{2}} \sqrt{4 - x^2}\,dx$	$1 + \frac{\pi}{2}$
$\int_0^{\ln 5} \frac{e^x\sqrt{e^x-1}}{e^x+3}\,dx$	$4 - \pi$
$\int_1^2 \frac{\mathrm{d}x}{\sqrt{3+2x-x^2}}$	$\frac{\pi}{6}$
$\int_0^{\frac{\pi}{2}} \frac{\sin\varphi}{6-5\cos\varphi+\cos^2\varphi}\mathrm{d}\varphi$	$\ln\frac{4}{3}$
$\int_0^1 xe^{-x}\mathrm{d}x$	$\frac{e-2}{e}$
$\int_1^e \ln x\,dx$	1
$\int_0^{\frac{\pi}{2}} x\sin x\,dx$	1
$\int_1^2 x\ln x\,dx$	$2\ln 2 - \frac{3}{4}$
$\int_0^1 x^3 e^{2x}\mathrm{d}x$	$\frac{e^2+3}{8}$
$\int_0^{\frac{\pi}{2}} e^{2x}\sin x\,\mathrm{d}x$	$\frac{2}{5}e^\pi + \frac{1}{5}$
$\int_{\frac{\pi}{3}}^{\frac{\pi}{4}} x\sin^{-2} x\,dx$	$\frac{\pi}{3} - \frac{\sqrt{3}}{3}\pi + \frac{1}{2}\ln 2$
$\int_{-1}^1 \arccos x\,\mathrm{d}x$	π
$\int_0^{\sqrt{3}} x\mathrm{arctg}\,x\,\mathrm{d}x$	$\frac{2}{3}\pi - \frac{\sqrt{3}}{2}$

$\int_0^{\ln 2} x \cosh x \, \mathrm{d}x$

$\frac{1}{4}(3 \ln 2 - 1)$

$I_n = \int_0^{\frac{\pi}{2}} \sin^n x \, \mathrm{d}x$

$I_0 = \frac{\pi}{2}$, $I_1 = 1$, $I_n = \frac{n-1}{n} I_{n-2}, n \geq 2$