[I]

(1) $\displaystyle\int dx =$

(2) $\displaystyle\int x^8\,dx =$

(3) $\displaystyle\int \sqrt{x}\,dx =$

(4) $\displaystyle\int \frac{dx}{x} =$

(5) $\displaystyle\int \frac{dx}{x^3} =$

(6) $\displaystyle\int \frac{dx}{x^5} =$

(7) $\displaystyle\int e^x\,dx =$

(8) $\displaystyle\int 2^x\,dx =$

(9) $\displaystyle\int 3^x\,dx =$

(10) $\displaystyle\int \sin x\,dx =$

(11) $\displaystyle\int \cos x\,dx =$

(12) $\displaystyle\int \frac{dx}{\cos^2 x} =$

(13) $\displaystyle\int \frac{dx}{\sqrt{1-x^2}} =$

(14) $\displaystyle\int \frac{dx}{1+x^2} =$

(15) $\displaystyle\int \sinh x\,dx =$

(16) $\displaystyle\int \cosh x\,dx =$

(17) $\displaystyle\int \frac{dx}{\cosh^2 x} =$

(18) $\displaystyle\int \frac{dx}{\sqrt{x^2+1}} =$

(19) $\displaystyle\int \frac{dx}{\sqrt{x^2-1}} =$

(20) $\displaystyle\int \frac{dx}{1-x^2} =$

[III]

(1) $\displaystyle\int 3x^2(x^3+2)^3\,dx$ (2) $\displaystyle\int \frac{x}{(1+x^2)^3}\,dx$ (3) $\displaystyle\int \frac{dx}{x^2+4}$

(4) $\displaystyle\int \frac{dx}{\sqrt{1+3x}}$ (5) $\displaystyle\int \tanh x\,dx$ (6) $\displaystyle\int \frac{dx}{\tan x}$

(7) $\displaystyle\int xe^{x^2}\,dx$ (8) $\displaystyle\int \frac{\log x}{x}\,dx$ (9) $\displaystyle\int \frac{dx}{e^x+e^{-x}}$

[II]

(1) $\displaystyle\int x^2 e^x\,dx$ (2) $\displaystyle\int x\log x\,dx$ (3) $\displaystyle\int x^2\sin x\,dx$

(4) $\displaystyle\int x^2\cos x\,dx$ (5) $\displaystyle\int \mathrm{Sin}^{-1}x\,dx$ (6) $\displaystyle\int \mathrm{Tan}^{-1}x\,dx$