

(a)

$$\int e^x dx$$

(b)

$$\int 6x^3(x^2 - 2) dx$$

(c)

$$\int \sin x dx$$

(d)

$$\int \cos x dx$$

(e)

$$\int \frac{x^3 - x}{x^3} dx$$

(f)

$$\int -\cos x \tan x dx$$

$$\frac{a^x}{\ln a} + c$$

$$\frac{5}{6}x^{6/5} + c$$

$$\tan x + c$$

$$-\cot x + c$$

$$\frac{1}{3}\sin^3 x + c$$

$$\frac{3}{7}x^{7/3} + \frac{3}{5}x^{5/3} + c$$

(g)

$$\int a^x dx$$

(h)

$$\int \sqrt[5]{x} dx$$

(i)

$$\int \frac{1}{\cos^2 x} dx$$

(j)

$$\int \csc^2 x dx$$

(k)

$$\int \sin^2 x \cos x dx$$

(l)

$$\int \sqrt[3]{x^4} + \sqrt[3]{x^2} dx$$

$$\frac{x^\pi}{\pi} + c$$

$$\frac{x^{n+1}}{n+1} + c$$

$$\sec x + c$$

$$\frac{1}{2}\ln^2 x + c$$

$$\ln|x| + c$$

$$\frac{\pi^{2x}}{2\ln \pi} + c$$

(m)

$$\int \frac{x^\pi}{x} dx$$

(n)

$$\int x^n dx$$

(o)

$$\int \sec x \tan x dx$$

(p)

$$\int \frac{\ln x}{x} dx$$

(q)

$$\int \frac{1}{x} dx$$

(r)

$$\int \pi^{2x} dx$$

$$2\sin^{-1} x + c$$

$$\frac{e^{2x}}{2} + c$$

$$\tan^{-1} x + c$$

$$\frac{1}{2x^2} + c$$

$$\sin^{-1} x + c$$

$$\frac{x}{e} + c$$

(s)

$$\int \frac{4}{\sqrt{4-4x^2}} dx$$

(t)

$$\int e^{2x} dx$$

(u)

$$\int \frac{1}{x^2+1} dx$$

(v)

$$-\int \frac{dx}{x^3}$$

(w)

$$\int \frac{1}{\sqrt{1-x^2}} dx$$

(x)

$$\frac{1}{e^2} \int e dx$$

$$x^6 - 3x^4 + c$$

$$-\cos x + c$$

$$\sin x + c$$

$$x + x^{-1} + c$$

$$\cos x + c$$

$$e^x + c$$