

$$\int \frac{1 - x^2}{1 + x^2} dx \quad (1.1)$$

$$\int \frac{x - 1}{x^2 - 4x + 8} dx \quad (1.6)$$

$$\int \frac{x}{3 - x^2} dx \quad (1.2)$$

$$\int \frac{1}{(x + 1)(x + 2)} dx \quad (1.7)$$

$$\int \frac{2x + 1}{x^2 + x + 1} dx \quad (1.3)$$

$$\int \frac{1}{x(1 + x^2)} dx \quad (1.8)$$

$$\int \frac{x}{x^2 + x - 6} dx \quad (1.4)$$

$$\int \frac{x^3 + 1}{x^3 - 5x^2 + 6x} dx \quad (1.9)$$

$$\int \frac{x^2}{1 + x^6} dx \quad (1.5)$$

$$\int \frac{1}{x^4 - 1} dx \quad (1.10)$$

$$\int \frac{x^4}{x^4 + 5x^2 + 4} dx \quad (1.11)$$

$$\int \frac{1}{1 + x^3} dx \quad (1.12)$$

$$\int \frac{x^7}{(1 - x^2)^5} dx \quad (1.13)$$

$$\int \frac{1}{x^4 (2x^2 - 1)} dx \quad (1.14)$$

$$\int \frac{1}{x (x^n + a)} dx \quad (1.15)$$

$$\int (1 - 2 \cot^2 x) dx \quad (2.1)$$

$$\int \tan x dx \quad (2.2)$$

$$\int \frac{\sec^2 x}{\sqrt{1 + \tan x}} dx \quad (2.3)$$

$$\int \cos^2(1 - 2x) dx \quad (2.4)$$

$$\int \cos^3 x dx \quad (2.5)$$

$$\int \sin \alpha x \cos \beta x \, dx \quad (2.6)$$

$$\int \frac{1}{\sin x \cos^4 x} \, dx \quad (2.11)$$

$$\int \tan^4 x \, dx \quad (2.7)$$

$$\int \frac{\sin^2 x}{1 + \sin^2 x} \, dx \quad (2.12)$$

$$\int \sqrt{1 + \cos x} \, dx \quad (2.8)$$

$$\int \frac{1 + \tan x}{\sin 2x} \, dx \quad (2.13)$$

$$\int \frac{\sin 2x}{1 + \sin^4 x} \, dx \quad (2.9)$$

$$\int \frac{1 - \tan x}{1 + \tan x} \, dx \quad (2.14)$$

$$\int \frac{\sin^4 x}{\cos^3 x} \, dx \quad (2.10)$$

$$\int \frac{1}{(2 + \cos x) \sin x} \, dx \quad (2.15)$$

$$\int \frac{\sin x}{\sin x + \cos x} dx \quad (2.16)$$

$$\int \sqrt{1 + \csc x} dx \quad (2.21)$$

$$\int \frac{1}{5 + 4 \sin x} dx \quad (2.17)$$

$$\int \frac{x^2}{\sqrt{a^2 + x^2}} dx \quad (3.1)$$

$$\int \frac{\cos x}{\sin x + \cos x} dx \quad (2.18)$$

$$\int \frac{\sqrt{x^2 - 4}}{x} dx \quad (3.2)$$

$$\int \frac{\sin x \cos^3 x}{1 + \cos^2 x} dx \quad (2.19)$$

$$\int \frac{1}{x\sqrt{a^2 - x^2}} dx \quad (3.3)$$

$$\int \frac{\sqrt{1 + \cos x}}{\sin x} dx, x \in (0, \pi) \quad (2.20)$$

$$\int \frac{1}{x^2 \sqrt{x^2 - 1}} dx \quad (3.4)$$

$$\int \frac{2x - 1}{\sqrt{4x^2 + 4x + 5}} dx \quad (3.5)$$

$$\int x^2 \sqrt{1 - x^2} dx \quad (3.10)$$

$$\int \frac{x^2}{\sqrt{3 + 2x - x^2}} dx \quad (3.6)$$

$$\int x \sqrt{x^4 + 2x^2 - 1} dx \quad (3.11)$$

$$\int \frac{1}{\sqrt{x}(\sqrt{x} + \sqrt[3]{x})} dx \quad (3.7)$$

$$\int x \sqrt{\frac{1+x}{1-x}} dx \quad (3.12)$$

$$\int \frac{\sqrt{x+1} - \sqrt{x-1}}{\sqrt{x+1} + \sqrt{x-1}} dx \quad (3.8)$$

$$\int \sqrt{\frac{a-x}{x-b}} dx \quad (3.13)$$

$$\int x \sqrt{x+2} dx \quad (3.9)$$

$$\int \frac{1-x+x^2}{\sqrt{1+x-x^2}} dx \quad (3.14)$$

$$\int \frac{1}{\sqrt{(a^2 - x^2)^3}} dx \quad (3.15)$$

$$\int \sqrt{\frac{\arcsin x}{1 - x^2}} dx \quad (4.5)$$

$$\int \frac{1}{(1 + x^2) \arctan x} dx \quad (4.1)$$

$$\int \frac{2^x}{\sqrt{4 - 4^{x+1}}} dx \quad (4.6)$$

$$\int \frac{1}{x^2} \sinh \frac{1}{x} dx \quad (4.2)$$

$$\int \frac{e^x}{1 + e^{2x}} dx \quad (4.7)$$

$$\int x \sec^2(1 - x^2) dx \quad (4.3)$$

$$\int \tanh x dx \quad (4.8)$$

$$\int \frac{x}{\sqrt{1 + x^2}} \sin \sqrt{1 + x^2} dx \quad (4.4)$$

$$\int \frac{1}{x \ln x \ln \ln x} dx \quad (4.9)$$

$$\int \frac{\sqrt{1 - \ln x}}{x} dx \quad (4.10)$$

$$\int x \ln(x - 1) dx \quad (5.5)$$

$$\int x \cos 2x dx \quad (5.1)$$

$$\int \ln \left(x + \sqrt{1 + x^2} \right) dx \quad (5.6)$$

$$\int x e^{-3x} dx \quad (5.2)$$

$$\int \arccos^2 x dx \quad (5.7)$$

$$\int x^2 \sin^2 x dx \quad (5.3)$$

$$\int x \tan^2 x dx \quad (5.8)$$

$$\int x \arctan x dx \quad (5.4)$$

$$\int \frac{x}{\sin^2 x} dx \quad (5.9)$$

$$\int e^x \sin^2 x \, dx \quad (5.10)$$

$$\int \frac{\arcsin e^x}{e^x} \, dx \quad (5.11)$$

$$\int \sin(\ln x) \, dx \quad (5.12)$$
