

$$۱. \int \frac{dx}{\sin x \cos^2 x}$$

$$۲. \int \frac{\sqrt{4x^2 + 4x - 3}}{2x + 1} dx$$

$$۳. \int \frac{\sin^2(\sqrt{x})}{\sqrt{x}} dx$$

$$۴. \int (\arcsin x)^2 dx$$

$$۵. \int \frac{dx}{2 + \sinh x}$$

$$۶. \int \sec^n x dx = \frac{\tan x \sec^{n-2} x}{n-1} + \frac{n-2}{n-1} \int \sec^{n-2} x dx \quad (n \neq 1)$$

$$۷. \int \frac{dx}{\sin x (2 + \cos x - 2 \sin x)}$$

$$۸. \int e^{2x} \cos 5x dx$$

$$۹. \int \cos(\sqrt{x}) dx$$

$$۱۰. \int \frac{x^2 - 3x^2 + x + 1}{(x^2 + 1)(x^2 + 4)} dx$$

$$۱۱. \int \arcsin(\sqrt{x}) dx$$

$$۱۲. \int \frac{x^4 + x^2 - x + 1}{x^4 - 1} dx$$

$$۱۳. \int \frac{x^2 - 2x - 1}{(x-1)^2(x^2+1)} dx$$

$$۱۴. \int \frac{\sqrt{x^2+1}}{x^2} dx$$

$$۱۵. \int \frac{x^2+1}{x^2-8} dx$$

$$۱۶. \int \frac{dx}{4x^2+4x^2+x}$$

$$۱۷. \int \frac{dx}{(x^2+x)(x^2+9)}$$

$$۱۸. \int \sin(\ln x) dx$$

$$\int \frac{x^{\mathfrak{r}} + x + \mathfrak{I}}{(x + \mathfrak{I})(x^{\mathfrak{r}} + \mathfrak{F})^{\mathfrak{r}}} dx \text{ .}\mathfrak{I}\mathfrak{9}$$

$$\int \frac{x \, dx}{\sqrt{x - x^{\mathfrak{r}}}} \text{ .}\mathfrak{I}\mathfrak{0}$$

$$\int \tan^{\mathfrak{r}} x \, \sec^{\mathfrak{r}} x \, dx \text{ .}\mathfrak{I}\mathfrak{I}$$

$$\int \frac{dx}{\sin^{\mathfrak{r}} x + \mathfrak{F} \cos x \sin x - \cos^{\mathfrak{r}} x} \text{ .}\mathfrak{I}\mathfrak{I}$$

$$\int \frac{dx}{(x^{\mathfrak{r}} + x + \mathfrak{I})^{\mathfrak{r}}} \text{ .}\mathfrak{I}\mathfrak{I}$$

$$\int \frac{x + \sqrt{x}}{x\sqrt[{\mathfrak{r}}]{x} - \sqrt{x}} \, dx \text{ .}\mathfrak{I}\mathfrak{F}$$

$$\int \frac{\mathfrak{I} x + \mathfrak{F} + \sqrt{x + \mathfrak{F}}}{\sqrt[{\mathfrak{r}}]{x + \mathfrak{F}} + \sqrt[{\mathfrak{r}}]{x + \mathfrak{F}}} \, dx \text{ .}\mathfrak{I}\mathfrak{5}$$

$$\int \frac{dx}{\mathfrak{I} + e^x} \text{ .}\mathfrak{I}\mathfrak{6}$$