

Obliczyć podane całki z funkcji wymiernych.

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

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

$$\int \frac{x^2}{x^2 - 4x + 8} dx$$

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

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

$$\int \frac{x^2}{x^2 + 2x + 5} dx$$

$$\int \frac{1}{x-3} dx$$

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

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

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

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

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

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

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

$$\int \frac{x^3}{x^2 - 3x + 2} dx$$

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

$$\int \frac{x^2 - 5x + 9}{x^2 + 5x + 6} dx$$

$$\int \frac{x^4 + 4x^3 + 8x^2 + x}{x^2 + 4x + 8} dx$$

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

$$\int \frac{1}{x^2 + 2x + 8} dx$$

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

$$\int \frac{1}{x(x-3)} dx$$

$$\int \frac{3}{x^2 + 6x + 18} dx$$

Obliczyć podane całki z funkcji trygonometrycznych.

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

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

$$\int \frac{\operatorname{tg} x}{\operatorname{tg} x - 1} dx$$

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

$$\int \frac{\sin^5 x}{\cos^3 x} dx$$

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

$$\int \frac{1}{\sin x + \cos x + 1} dx$$

$$\int \frac{2 \sin x + 3 \cos x}{\sin^2 x \cos x + 4 \cos^3 x} dx$$

$$\int \operatorname{tg}^3 x dx$$

Obliczyć podane całki z funkcji niewymiernych.

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

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

$$\int \frac{x^3}{\sqrt{x^2 + 16}} dx$$

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

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