

ZESTAW ZADAŃ 12

Zadanie 12.1

Obliczyć całki prostych funkcji wymiernych:

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

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

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

$$\int \frac{x^4}{x^4+1} dx \quad (1n)$$

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

$$\int \frac{x+4}{x+3} dx \quad (1l)$$

$$\int \frac{x+2}{x+3} dx \quad (1x)$$