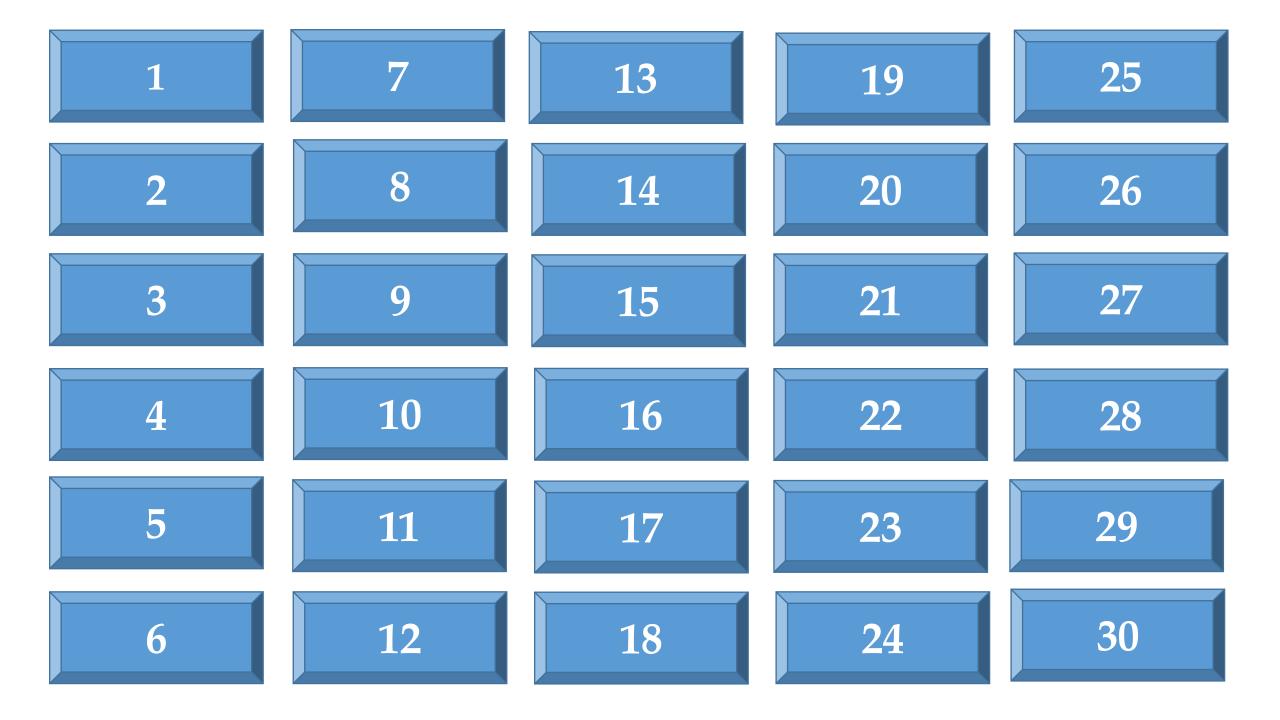
# Неопределенный интеграл

Сборник заданий



$$\int (x^2 + 2x^3 + x + 1) \, dx$$



$$\int \left( x^4 + 2\sqrt{x} + \sqrt[3]{x} + \frac{1}{x} + \frac{1}{x^2} \right) dx$$



$$\int \left(\frac{3}{1+x^2} + \frac{2}{\sqrt{1-x^2}}\right) dx.$$



$$\int (2^x + 3^x + 4e^x) \, dx$$



$$\int (\sqrt{x}+1)(x+\sqrt{x}-1)\,dx$$



$$\int (\sin x + 3\cos x) dx$$



$$\int \left(x^2\sqrt{x}+x\sqrt[3]{x}-rac{1}{\sqrt{x}}+rac{1}{\sqrt[3]{x}}
ight)\,dx$$



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



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



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



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



$$\int \frac{3x^{4} + 3x^{2} + 1}{x^{2} + 1} dx$$



$$\int \sin 5x \, dx$$



$$\int \cos\left(3x+5\right)dx$$



$$\int \frac{\sin \sqrt{x}}{2\sqrt{x}} dx$$



$$\int x(2x+1)^9\,dx$$



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



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



$$\int \sqrt{2x+5}\,dx$$



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



$$\int \operatorname{tg} x \, dx$$



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



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



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



$$\int x \arctan x \, dx$$



$$\int x \ln x \, dx$$



$$\int (2x^2 + x) \ln x \, dx$$



$$\int x \, e^{5x} \, dx$$



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



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

