

Вариант № 21

1.	$\int (\cos x + 2)^{21} \cdot \sin x dx$	21.	$\int \sqrt{\operatorname{tg} x} dx$
2.	$\int \frac{dx}{x \cdot (5 - \ln x)}$	22.	$\int \sin 5x \cdot \sin x dx$
3.	$\int \frac{\cos x dx}{\sqrt{\sin^2 x + 3}}$	23.	$\int \sin^4 x dx$
4.	$\int x \cdot e^{-x^2} dx$	24.	$\int \frac{dx}{8 - 4 \sin x + 7 \cos x}$
5.	$\int \frac{3^x}{1 + 3^{2x}} dx$	25.	$\int \frac{1}{1 - \cos^4 x} dx$
6.	$\int \sin x \cdot 2^{-\cos x} dx$	26.	$\int \cos^5 x dx$
7.	$\int \frac{dx}{\sqrt{4 - 9x^2}}$	27.	$\int \frac{x dx}{\sqrt[3]{x+1} + \sqrt{x+1}}$
8.	$\int e^{\frac{1}{\sqrt{x}}} \frac{dx}{\sqrt{x^3}}$	28.	$\int \frac{1}{x} \cdot \sqrt[3]{\frac{1-x}{1+x}} dx$
9.	$\int \frac{\cos \sqrt{x} dx}{\sqrt{x}}$	29.	$\int \sqrt{x^2 - 9} dx$
10.	$\int (\operatorname{tg} x + \operatorname{ctg} x)^2 dx$	30.	$\int x^{-1} \cdot (1 + \sqrt[3]{x})^{-3} dx$
11.	$\int x \cdot \sin 3x dx$	31.	$\int \frac{(x+1) dx}{\sqrt{1-4x^2}}$
12.	$\int \ln x dx$	32.	$\int x^5 \cdot (x^3 + 1)^{-1} dx$
13.	$\int x^2 \cdot e^{2x} dx$	33.	$\int (1 + x^2)^{-3/2} dx$
14.	$\int e^x \cdot \cos x dx$	34.	$\int \frac{\sqrt{1+\sqrt{x}}}{\sqrt{x}} dx$
15.	$\int \frac{(x+1) dx}{\sqrt{1-x-x^2}}$	35.	$\int \frac{e^x}{e^{2x} + 4e^x + 5} dx$
16.	$\int \frac{3x-1}{x^2-x+1} dx$	36.	$\int x \cdot \sin x \cdot \cos x dx$
17.	$\int \sqrt{e^x - 1} dx$	37.	$\int \frac{dx}{\operatorname{sh}^2 x \cdot \operatorname{ch}^2 x}$
18.	$\int \frac{dx}{x^3(x-1)}$	38.	$\int x \cdot \ln(1+x^2) dx$
19.	$\int \frac{dx}{(x^2+2)(x-1)}$	39.	$\int \frac{x^2 \operatorname{arctg} x dx}{1+x^2}$
20.	$\int \frac{5x^3 + 9x^2 - 22x - 8}{x^3 - 4x} dx$	40.	$\int \frac{xdx}{\sqrt[3]{2x-3}}$

Вариант № 22

1.	$\int (tgx + 4)^{12} \cdot \cos^{-2} x dx$	21.	$\int \sin 2x \cdot \sin 4x dx$
2.	$\int \frac{e^{\arcsin x} dx}{\sqrt{1-x^2}}$	22.	$\int \cos^3 x \cdot \sin^2 x dx$
3.	$\int \frac{x^2 dx}{\sqrt{x^6 - 2}}$	23.	$\int \frac{dx}{\sin^3 x}$
4.	$\int \sin(4x + 5) dx$	24.	$\int \cos^4 x dx$
5.	$\int ctg(4x + 1) dx$	25.	$\int tg^5 x dx$
6.	$\int \frac{x^3 dx}{\sqrt{1+x^8}}$	26.	$\int \frac{dx}{3\cos^2 x + 4\sin^2 x}$
7.	$\int \frac{x^9 - x^4}{x^{10} + 9} dx$	27.	$\int \frac{dx}{x(\sqrt{x} - \sqrt[3]{x^2})}$
8.	$\int x^{-1/2} \cdot \cos^{-2} \frac{\sqrt{x}}{2} dx$	28.	$\int \frac{x^2 dx}{\sqrt{9-x^2}}$
9.	$\int \frac{(x+1) dx}{\sqrt{4-9x^2}}$	29.	$\int x^{-1/2} (1+x^{1/3})^{-1} dx$
10.	$\int \frac{tgx dx}{\ln \cos x}$	30.	$\int \sqrt{1-x^2} dx$
11.	$\int e^{\sqrt{x}} dx$	31.	$\int th^4 x dx$
12.	$\int x \cdot \operatorname{arctg} x dx$	32.	$\int (\sqrt{x} - \sqrt[3]{x})^{-1} dx$
13.	$\int \cos(\ln x) dx$	33.	$\int \frac{1}{x} \sqrt{\frac{x-1}{x+1}} dx$
14.	$\int x^2 \cdot \ln x dx$	34.	$\int \frac{\sin^2(\ln x)}{x} dx$
15.	$\int \frac{dx}{\sqrt{e^x - 1}}$	35.	$\int x(1+2x^2) \operatorname{arctg} x dx$
16.	$\int \frac{x}{29-10x-x^2} dx$	36.	$\int \frac{a^2 + \sqrt{a^2 + b^2 x^2}}{a^2 + b^2 x^2} dx$
17.	$\int \frac{dx}{\sqrt{x^2 + 2x + 2}}$	37.	$\int \frac{\arcsin e^x}{e^x} dx$
18.	$\int \frac{(3x+2) dx}{x(x+1)^3}$	38.	$\int \sqrt{1 + \sin x} dx$
19.	$\int \frac{2x^3 - 3x + 1}{x^3 + 1} dx$	39.	$\int \frac{x dx}{ch^2(1+x^2)}$
20.	$\int \frac{dx}{(x-1)(x-2)(x-3)}$	40.	$\int \frac{e^x \sqrt{e^x - 1}}{e^x + 3} dx$

Вариант № 23

1.	$\int (\operatorname{ctg} x - 10)^3 \cdot \sin^{-2} x dx$	21.	$\int \cos x \cdot \sin 7x dx$
2.	$\int \cos(\ln x) \frac{dx}{x}$	22.	$\int \cos^3 x \cdot \sin^2 x dx$
3.	$\int \frac{x^5 dx}{7x^{12} + 2}$	23.	$\int \frac{\sin x + \cos x}{3 + \sin x} dx$
4.	$\int \sin(2 - 7x) dx$	24.	$\int (\cos^4 x + \sin^4 x)^{-1} dx$
5.	$\int e^x \cdot \operatorname{tg} e^x dx$	25.	$\int \operatorname{ctg}^4 x dx$
6.	$\int \frac{dx}{2 - 5x}$	26.	$\int \frac{dx}{\sin^3 x}$
7.	$\int \frac{x}{x^4 - 1} dx$	27.	$\int \frac{dx}{\sqrt{x} + \sqrt[3]{x} + 2\sqrt[4]{x}}$
8.	$\int \frac{\cos x dx}{\sqrt[3]{3 \sin^5 x}}$	28.	$\int \sqrt{\frac{1 - \sqrt{x}}{1 + \sqrt{x}}} dx$
9.	$\int \frac{x^2 dx}{\sqrt{2 - x^6}}$	29.	$\int \frac{x^2 dx}{\sqrt{16 - x^2}}$
10.	$\int \cos x \cdot 3^{\sin x} dx$	30.	$\int x^2 \cdot \sqrt[3]{4 - x^3} dx$
11.	$\int x \cdot e^{2x} dx$	31.	$\int \sqrt{4 + x^2} dx$
12.	$\int \operatorname{arctg} x dx$	32.	$\int x^5 \cdot \sqrt[3]{1 + x^3} dx$
13.	$\int x^2 \ln x dx$	33.	$\int \frac{e^x \cdot \sqrt{e^x - 1}}{e^x + 1} dx$
14.	$\int e^x \cdot \sin x dx$	34.	$\int \frac{(a^x - b^x)^2}{a^x b^x} dx$
15.	$\int \frac{e^x \cdot \sqrt{e^x + 2}}{e^x - 3} dx$	35.	$\int \frac{x}{1 + \cos x} dx$
16.	$\int \frac{(2x - 1)}{1 - 6x - x^2} dx$	36.	$\int \frac{dx}{2 + \cos x}$
17.	$\int \frac{dx}{\sqrt{5 - 4x - x^2}}$	37.	$\int \left(3 - \frac{x}{\sqrt{x^2 + 1}}\right) \cdot \frac{dx}{\sqrt{x^2 + 1}}$
18.	$\int \frac{x^2 dx}{(x + 2)^2 (x - 4)^2}$	38.	$\int \sqrt{2 + \operatorname{ch} x} \operatorname{sh} x dx$
19.	$\int \frac{x^5 + x^4 - 8}{x^3 + 4x} dx$	39.	$\int \frac{dx}{\sin \frac{\sqrt{x}}{2}}$
20.	$\int \frac{x^3 - 2x + 2}{(x - 1)^2 (x + 2)^2} dx$	40.	$\int \operatorname{ch}^4 x dx$

Вариант № 24

1.	$\int \frac{\sqrt{1-\sqrt{x}}}{\sqrt{x}} dx$	21.	$\int \sin 5x \cdot \sin 9x dx$
2.	$\int \frac{dx}{\cos^2 x (1+3tgx)}$	22.	$\int \frac{dx}{1+\sin x}$
3.	$\int \frac{e^{2x}+2}{e^x} dx$	23.	$\int \frac{dx}{(\sin x + \cos x)^2}$
4.	$\int \cos \frac{2}{x} \cdot \frac{dx}{x^2}$	24.	$\int \frac{dx}{4+tgx}$
5.	$\int tg \sqrt{x} \frac{dx}{\sqrt{x}}$	25.	$\int \frac{dx}{\sin^3 x \cdot \cos x}$
6.	$\int \frac{dx}{\sqrt{4x^2+3}}$	26.	$\int \cos^5 3x dx$
7.	$\int \frac{x-1}{\sqrt{7-9x^2}} dx$	27.	$\int \frac{\sqrt{x+2} dx}{1+\sqrt[3]{x+2}}$
8.	$\int \frac{e^{3x} dx}{1+e^{6x}}$	28.	$\int \frac{dx}{2x+\sqrt[3]{x^2}}$
9.	$\int (2x+1)(4x^2-1)^{-1} dx$	29.	$\int x^{-1/3} (1-x^{2/3})^{1/2} dx$
10.	$\int x \cdot 8^{2-3x^2} dx$	30.	$\int (1+x^2)^{-5/2} dx$
11.	$\int x \cdot \ln(x+1) dx$	31.	$\int thax dx$
12.	$\int x^3 \cdot \sin(x^2) dx$	32.	$\int \frac{x^2 dx}{\cos(x^3)}$
13.	$\int \arcsin 5x dx$	33.	$\int \frac{x e^{\sqrt{x^2-1}}}{\sqrt{x^2-1}} dx$
14.	$\int e^{5x} \cdot \cos 2x dx$	34.	$\int \frac{(1+\cos 2x)^3}{\cos 2x} dx$
15.	$\int \frac{x dx}{4+6x-9x^2}$	35.	$\int sh^2 x \cdot ch^2 x dx$
16.	$\int \frac{(x+2)}{\sqrt{5-4x-x^2}} dx$	36.	$\int x \cdot e^{2x} dx$
17.	$\int (e^x+1)^{-2} dx$	37.	$\int x \cdot e^{-x^2} dx$
18.	$\int \frac{x^5 dx}{x^4-1}$	38.	$\int \frac{2-\sqrt[3]{tgx}}{\cos^2 x} dx$
19.	$\int \frac{dx}{x^3+x^2+x+1}$	39.	$\int \frac{1}{(1+x)^2} \cdot \sqrt{\frac{1+x}{1-x}} dx$
20.	$\int \frac{x dx}{(x-1)(x+2)^2}$	40.	$\int \frac{\ln x dx}{x \cdot \sqrt{6+4 \ln x - \ln^2 x}}$

Вариант № 25

1.	$\int \sin^3 5x \cdot \cos 5x dx$	21.	$\int \cos 5x \cdot \cos 3x dx$
2.	$\int (\sin x - \cos x)^2 dx$	22.	$\int \frac{\cos^2 x}{\sin^4 x} dx$
3.	$\int \frac{x^2 + 1}{x^2 - 1} dx$	23.	$\int \frac{dx}{\sin x + \cos x}$
4.	$\int \frac{2x + 3}{x^2 - 5} dx$	24.	$\int \frac{dx}{\operatorname{ctg}^5 x}$
5.	$\int (1 - e^x)^2 dx$	25.	$\int \cos^5 3x dx$
6.	$\int x \sin(1 - x^2) dx$	26.	$\int \sin^4 x dx$
7.	$\int a^{x^2} e^{x^2} x dx$	27.	$\int \frac{\sqrt{x} - 1}{\sqrt[3]{x} + 1} dx$
8.	$\int \frac{dx}{(1 + x^2) \operatorname{arctg} x}$	28.	$\int x^{-4} (1 + x^2)^{-1/2} dx$
9.	$\int \frac{2^x dx}{\sqrt{4^x - 1}}$	29.	$\int \frac{x dx}{\sqrt[3]{ax + b}}$
10.	$\int e^{2/x} \cdot \frac{dx}{x^2}$	30.	$\int \sqrt{1 - x^2} dx$
11.	$\int \sin(\ln x) dx$	31.	$\int \frac{dx}{\sqrt{(x^2 + 4)^3}}$
12.	$\int \ln(x + \sqrt{1 + x^2}) dx$	32.	$\int \sqrt{e^x + 1} dx$
13.	$\int x^2 \cdot \operatorname{arctg} x dx$	33.	$\int \frac{dx}{\sin x \cdot \cos^5 x}$
14.	$\int e^x \cdot \cos x dx$	34.	$\int \operatorname{ch}^2 3x dx$
15.	$\int \frac{(3x - 2) dx}{\sqrt{4x^2 - 4x + 5}}$	35.	$\int \frac{\ln(1 + x + x^2)}{(1 + x)^2} dx$
16.	$\int \frac{x}{2 - 2x - x^2} dx$	36.	$\int x^x \cdot (1 + \ln x) dx$
17.	$\int \frac{e^x(1 - e^x)}{3 + e^{2x}} dx$	37.	$\int \frac{dx}{\operatorname{sh}^2 x + \operatorname{ch}^2 x}$
18.	$\int \frac{(2x + 3) dx}{x^3 + x^2 - 2x}$	38.	$\int e^{\operatorname{arcsin} x} dx$
19.	$\int \frac{(x^2 - x) dx}{(x + 3)^5}$	39.	$\int e^{x^2 + \ln x} dx$
20.	$\int \frac{x^5 dx}{x^3 + 4x}$	40.	$\int \frac{(\operatorname{tg} x + 1) \cdot \sec^2 x dx}{5 + 2\operatorname{tg}^2 x}$