

Вариант № 16

1.	$\int \sqrt{\frac{\arcsin x}{1-x^2}} dx$	21.	$\int \frac{dx}{\sin^4 x}$
2.	$\int x \cdot 2^{x^2} dx$	22.	$\int \sin^5 x \cdot \sqrt[3]{\cos x} dx$
3.	$\int \frac{e^{\operatorname{arctg} x}}{1+x^2} dx$	23.	$\int \frac{\sin x}{1-\sin x} dx$
4.	$\int \frac{dx}{e^x + e^{-x}}$	24.	$\int \frac{1+\operatorname{tg} x}{1-\operatorname{tg} x} dx$
5.	$\int \frac{\sin 2x dx}{\sqrt{2+\sin^4 x}}$	25.	$\int \sin \omega x \cdot \sin(\omega x + \omega_0) dx$
6.	$\int \frac{dx}{x^2 \cdot e^{1/x}}$	26.	$\int \cos^4 x dx$
7.	$\int \operatorname{tg} \sqrt{x} \cdot \frac{dx}{\sqrt{x}}$	27.	$\int \frac{dx}{\sqrt{x} + \sqrt[3]{x}}$
8.	$\int x \cdot \operatorname{ctg}(x^2 + 1) dx$	28.	$\int \frac{dx}{x^2 \cdot \sqrt{(2+x^3)^5}}$
9.	$\int \frac{e^x dx}{e^x - 1}$	29.	$\int \frac{\sqrt{1-x^2}}{x^2} dx$
10.	$\int \frac{x^2}{x^3 + 1} \cdot \ln(x^3 + 1) dx$	30.	$\int \sqrt{\frac{x+1}{x-1}} dx$
11.	$\int x \cdot \sin x \cdot \cos x dx$	31.	$\int (1 - \sqrt[3]{2x}) \cdot (\sqrt{2x})^{-1} dx$
12.	$\int x \cdot e^{-x} dx$	32.	$\int (e^{2x} + e^x - 2)^{-1} dx$
13.	$\int \arcsin^2 x dx$	33.	$\int \sin^{-3} x dx$
14.	$\int e^{-x} \cdot \sin^2 x dx$	34.	$\int x \cdot \cos^{-2} x dx$
15.	$\int \frac{(3x+5) dx}{x^2 + 2x + 2}$	35.	$\int \frac{\sqrt{x+1} + 2}{(x+1)^2 - \sqrt{x+1}} dx$
16.	$\int \frac{8x-11}{\sqrt{5+2x-x^2}} dx$	36.	$\int \frac{1+\ln x}{x\sqrt{3-\ln^2 x}} dx$
17.	$\int e^{2x} (e^x - 1)^{-1/5} dx$	37.	$\int x^7 (1+3x^4)^{-1/2} dx$
18.	$\int (x^3 + 1)^{-1} dx$	38.	$\int \sin^5 x \cdot \cos^{-2} x dx$
19.	$\int \frac{5x^2 + 6x + 9}{(x+1)^2 (x-3)^2} dx$	39.	$\int \frac{dx}{x^2 \sqrt{4-x^2}}$
20.	$\int \frac{(x^4 + 1) dx}{x^3 - x^2 + x - 1}$	40.	$\int (1-x) \cdot \cos^2(1-x)^2 dx$

Вариант № 17

1.	$\int \frac{\sqrt[3]{1+\ln x}}{x} dx$	21.	$\int \frac{dx}{\sin x + \cos x}$
2.	$\int x \cdot e^{-x^2} dx$	22.	$\int \sin 10x \cdot \sin 15x dx$
3.	$\int \frac{dx}{\sqrt{e^x}}$	23.	$\int \frac{dx}{1+3\cos^2 x} dx$
4.	$\int a^{\sin x} \cdot \cos x dx$	24.	$\int \sin^4 \frac{x}{2} dx$
5.	$\int \operatorname{ctg}^2 ax dx$	25.	$\int \frac{\sin^5 x}{\cos x} dx$
6.	$\int \operatorname{tg} \sqrt{x-1} \frac{dx}{\sqrt{x-1}}$	26.	$\int \cos^5 x dx$
7.	$\int x \cdot 10^{1-x^2} dx$	27.	$\int \frac{x^2 dx}{\sqrt{x^2+1}}$
8.	$\int \frac{2^x dx}{1-4^x}$	28.	$\int \frac{3-4x}{(1-2\sqrt{x})^2} dx$
9.	$\int \frac{dx}{(a+b)+(a-b)x^2}$	29.	$\int \frac{dx}{\sqrt[3]{x} + \sqrt[4]{x}}$
10.	$\int \operatorname{tg}^3 \frac{x}{3} \cdot \sec^2 \frac{x}{3} dx$	30.	$\int x^3 \cdot (1+2x^2)^{-3/2} dx$
11.	$\int x^2 \cdot \sin 3x dx$	31.	$\int (1-\sin x) \cdot \sec x dx$
12.	$\int x \cdot \operatorname{tg}^2 2x dx$	32.	$\int \sqrt{a^2+x^2} dx$
13.	$\int e^{\sqrt{x}} dx$	33.	$\int x \cdot \sin^2 x^2 dx$
14.	$\int e^{-x} \cdot \sin \frac{x}{2} dx$	34.	$\int e^{-x^2} dx$
15.	$\int \frac{x^2 dx}{x^2-6x+10}$	35.	$\int \frac{x}{\sqrt[3]{ax+b}} dx$
16.	$\int \frac{2x-8}{\sqrt{1-x-x^2}} dx$	36.	$\int \sqrt{e^x+1} dx$
17.	$\int \frac{dx}{e^{2x}-e^x}$	37.	$\int \frac{dx}{\sqrt{\sin x \cdot \cos^5 x}}$
18.	$\int \frac{dx}{x \cdot (x+1)^2} dx$	38.	$\int \frac{e^x dx}{\sqrt{1+e^x+e^{2x}}}$
19.	$\int \frac{x^4}{x^4-1} dx$	39.	$\int \frac{dx}{x^2 \sqrt{4-x^2}}$
20.	$\int \frac{2x^2+41x-91}{(x-1)(x^2-x-12)} dx$	40.	$\int \frac{5x^3+2}{x^3-5x^2+4x} dx$

Вариант № 18

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

Вариант № 19

1.	$\int \frac{\sqrt[3]{1+\ln x}}{x} dx$	21.	$\int \frac{dx}{\sin x + \cos x}$
2.	$\int x \cdot e^{-x^2} dx$	22.	$\int \sin 10x \cdot \sin 15x dx$
3.	$\int \frac{dx}{\sqrt{e^x}}$	23.	$\int \frac{dx}{1+3\cos^2 x} dx$
4.	$\int a^{\sin x} \cdot \cos x dx$	24.	$\int \sin^4 \frac{x}{2} dx$
5.	$\int \operatorname{ctg}^2 ax dx$	25.	$\int \frac{\sin^5 x}{\cos x} dx$
6.	$\int \operatorname{tg} \sqrt{x-1} \frac{dx}{\sqrt{x-1}}$	26.	$\int \cos^5 x dx$
7.	$\int x \cdot 10^{1-x^2} dx$	27.	$\int \frac{x^2 dx}{\sqrt{x^2+1}}$
8.	$\int \frac{2^x dx}{1-4^x}$	28.	$\int \frac{3-4x}{(1-2\sqrt{x})^2} dx$
9.	$\int \frac{dx}{(a+b)+(a-b)x^2}$	29.	$\int \frac{dx}{\sqrt[3]{x} + \sqrt[4]{x}}$
10.	$\int \operatorname{tg}^3 \frac{x}{3} \cdot \sec^2 \frac{x}{3} dx$	30.	$\int x^3 \cdot (1+2x^2)^{-3/2} dx$
11.	$\int x^2 \cdot \sin 3x dx$	31.	$\int (1-\sin x) \cdot \sec x dx$
12.	$\int x \cdot \operatorname{tg}^2 2x dx$	32.	$\int \sqrt{a^2+x^2} dx$
13.	$\int e^{\sqrt{x}} dx$	33.	$\int x \cdot \sin^2 x^2 dx$
14.	$\int e^{-x} \cdot \sin \frac{x}{2} dx$	34.	$\int e^{-x^2} dx$
15.	$\int \frac{x^2 dx}{x^2-6x+10}$	35.	$\int \frac{x}{\sqrt[3]{ax+b}} dx$
16.	$\int \frac{2x-8}{\sqrt{1-x-x^2}} dx$	36.	$\int \sqrt{e^x+1} dx$
17.	$\int \frac{dx}{e^{2x}-e^x}$	37.	$\int \frac{dx}{\sqrt{\sin x \cdot \cos^5 x}}$
18.	$\int \frac{dx}{x \cdot (x+1)^2}$	38.	$\int \frac{e^x dx}{\sqrt{1+e^x+e^{2x}}}$
19.	$\int \frac{x^4}{x^4-1} dx$	39.	$\int \frac{dx}{x^2 \sqrt{4-x^2}}$
20.	$\int \frac{2x^2+41x-91}{(x-1)(x^2-x-12)} dx$	40.	$\int \frac{5x^3+2}{x^3-5x^2+4x} dx$

Вариант № 20

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