

Вариант № 6

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

Вариант № 7

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

Вариант № 8

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

Вариант № 9

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

Вариант № 10

1.	$\int \frac{\sqrt{2\operatorname{tg}x+1}}{\cos^2 x} dx$	21.	$\int \sin 3x \cdot \cos 7x dx$
2.	$\int x(x^2+1)^4 dx$	22.	$\int \sin^2 x \cdot \cos^2 x dx$
3.	$\int \frac{\ln(2x+1)}{2x+1} dx$	23.	$\int (1+\cos x)^3 dx$
4.	$\int a^{x^5} \cdot x^4 dx$	24.	$\int \frac{\sin^3 x}{\cos^2 x} dx$
5.	$\int e^{\sin 3x} \cdot \cos 3x dx$	25.	$\int \frac{dx}{\cos^4 x}$
6.	$\int \cos \frac{1}{x} \cdot \frac{dx}{x^2}$	26.	$\int \frac{1+\sin x}{1+\cos x+\sin x} dx$
7.	$\int \operatorname{tg} \sqrt{x-1} \cdot \frac{dx}{\sqrt{x-1}}$	27.	$\int \sqrt{4-x^2} dx$
8.	$\int \frac{e^x dx}{\sqrt{e^{2x}-1}}$	28.	$\int \frac{x^2 dx}{\sqrt{(x^2+1)^5}}$
9.	$\int \frac{e^x dx}{\sqrt{1-e^{2x}}}$	29.	$\int \frac{2\sqrt[4]{x+1}}{\sqrt[4]{x^3}(\sqrt{x+4})} dx$
10.	$\int (1+4x^2)^{-1} \cdot \sqrt{\operatorname{arctg} 2x} dx$	30.	$\int x^{1/3} \cdot (2+x^{2/3})^{1/4} dx$
11.	$\int x \cdot \sin 5x dx$	31.	$\int \frac{\sin x - \cos x}{(\cos x + \sin x)^5} dx$
12.	$\int \arccos x dx$	32.	$\int (1-x)^{100} \cdot x dx$
13.	$\int x \cdot e^{2x} dx$	33.	$\int \ln^2 x dx$
14.	$\int e^x \cdot \sin 2x dx$	34.	$\int \frac{dx}{\ln^2 x}$
15.	$\int \frac{(x-2) dx}{\sqrt{x^2+4x+6}}$	35.	$\int \frac{(1+\ln x) dx}{(x \ln x)^2}$
16.	$\int \frac{(x-1) dx}{x^2+x+1}$	36.	$\int \frac{x^3 dx}{x^8-1}$
17.	$\int \frac{e^{2x}}{e^x+e^{-2x}} dx$	37.	$\int \frac{xdx}{x^2+1}$
18.	$\int \frac{(3x-4)dx}{x^3(x-2)}$	38.	$\int \frac{dx}{1+2\sin^2 x}$
19.	$\int \frac{(x+2) dx}{x(x^2+2x+2)}$	39.	$\int (1+x^2)^{-3/2} dx$
20.	$\int \frac{x^5+2x^3+4x+4}{x^4+2x^3+2x^2} dx$	40.	$\int \frac{dx}{\sqrt{1+e^x}}$