1. $\int (3x-11)^9 \mathrm{d}x$ — $\frac{1}{30}(3x-11)^{10}+C$

2. $\int x(a+bx)^n \mathrm{d}x$ — $\frac{1}{b^2}\left(\frac{(a+bx)^{n+2}}{n+2}-a\cdot\frac{(a+bx)^{n+1}}{n+1}\right)+C$

3. $\int \frac{x}{(a+bx)^n}\mathrm{d}x$ — $\frac{1}{b^2}\left(\frac{(a+bx)^{2-n}}{2-n}-a\frac{(a+bx)^{1-n}}{1-n}\right)+C$

4. $\int \frac{x^2}{(a+bx)^n}\mathrm{d}x$ — $\frac{1}{b^3}\left(\frac{(a+bx)^{3-n}}{3-n}-2a\frac{(a+bx)^{2-n}}{2-n}+a^2\frac{(a+bx)^{1-n}}{1-n}\right)+C$

5. $\int \frac{\mathrm{d}x}{9x^2+4}$ — $\frac{1}{6}\operatorname{arctg}\frac{3}{2}x+C$

6. $\int \frac{\mathrm{d}x}{x^2+5x+11}$ — $\frac{2}{\sqrt{19}}\operatorname{arctg}\frac{x+5}{\sqrt{19}}+C$

7. $\int \frac{\mathrm{d}x}{\sqrt{x^2+4x+5}}$ — $\ln(x+2+\sqrt{x^2+4x+5})+C$

8. $\int \frac{\mathrm{d}x}{\sqrt{1-3x^2}}$ — $\frac{1}{\sqrt{3}}\arcsin\sqrt{3}x+C$

9. $\int \frac{\mathrm{d}x}{(x-\sqrt{x^2-1})^2}$ — $\frac{2}{3}x^3-x+\frac{2}{3}(x^2-1)^{\frac{3}{2}}+C$

10. $\int \frac{e^x}{4+e^x}\mathrm{d}x$ — $\ln(4+e^x)+C$

11. $\int \frac{\mathrm{d}x}{1+3^x}$ — $\frac{1}{\ln 3}\ln\frac{3^x}{1+3^x}+C=-\frac{1}{\ln 3}\ln(1+3^{-x})+C$

12. $\int \frac{\mathrm{d}x}{\sqrt{2^x+1}}$ — $\frac{1}{\ln 2}\ln\left|\frac{\sqrt{2^x+1}-1}{\sqrt{2^x+1}+1}\right|+C$

13. $\int \frac{\ln^4 x}{x}\mathrm{d}x$ — $\frac{1}{5}\ln^5 x+C$

14. $\int \frac{\cos x}{\sin^2 x}\mathrm{d}x$ — $-\frac{1}{\sin x}+C$

15. $\int \frac{\sin x}{\sqrt{\cos^5 x}}\mathrm{d}x$ — $\frac{2}{3}\frac{1}{\sqrt{\cos^3 x}}+C$

16. $\int \frac{\sqrt[3]{\operatorname{tg}^2 x}}{\cos^2 x}\mathrm{d}x$ — $\frac{3}{5}\operatorname{tg}^{\frac{5}{3}}x+C$

17. $\int \frac{\sin 2x}{\sin^2 x+3}\mathrm{d}x$ — $\frac{\sqrt{3}}{3}\operatorname{arctg}\frac{\sin^2 x}{\sqrt{3}}+C$

18. $\int \cos^2 x\,\mathrm{d}x$ — $\frac{1}{2}x+\frac{1}{4}\sin 2x+C$

19. $\int \sin^2 x\,\mathrm{d}x$ — $\frac{1}{2}x-\frac{1}{4}\sin 2x+C$

20. $\int \frac{\mathrm{d}x}{\cos x}$ — $\frac{1}{2}\ln\left|\frac{\sin x+1}{\sin x-1}\right|+C$

21. $\int \frac{\mathrm{d}x}{\sin x}$ — $\frac{1}{2}\ln\left|\frac{\cos x-1}{\cos x+1}\right|+C$

22. $\int \cos 3x\sin 4x\,\mathrm{d}x$ — $-\frac{\cos 7x}{14}-\frac{\cos x}{2}+C$

23. $\int \sqrt{\frac{\arccos x}{1-x^2}}\mathrm{d}x$ — $-\frac{2}{3}\sqrt{\arccos^3 x}+C$

24. $\int \frac{x^2}{\sin x^3}\mathrm{d}x$ — $\frac{1}{6}\ln\left|\frac{\cos x^3-1}{\cos x^3+1}\right|+C$

25. $\int \frac{x-\operatorname{arctg} x}{1+x^2}\mathrm{d}x$ — $\frac{1}{2}\ln(1+x^2)-\frac{1}{2}\operatorname{arctg}^2 x+C$

26. $\int \frac{\mathrm{d}x}{\cosh x}$ — $2\operatorname{arctg} e^x+C$

27. $\int \frac{\mathrm{d}x}{\cosh x}$ — $\operatorname{arctg}\sinh x+C$

28. $\int \frac{1}{\cosh^2 x}\mathrm{d}x$ — $\operatorname{tgh} x+C$

29. $\int \frac{\mathrm{d}x}{\operatorname{tg} x\ln^2\sin x}$ — $-\frac{1}{\ln\sin x}+C$

30. $\int xe^{2x}\mathrm{d}x$ — $\frac{e^{2x}}{4}(2x-1)+C$

31. $\int x\ln x\mathrm{d}x$ — $\frac{x^2}{4}(2\ln x-1)+C$

32. $\int xa^x\mathrm{d}x$ — $\frac{1}{\ln a}xa^x-\frac{1}{\ln^2 a}a^x+C$

33. $\int \ln x\,dx$ — $x(\ln x-1)+C$

34. $\int \arcsin x\,\mathrm{d}x$ — $x\arcsin x+\sqrt{1-x^2}+C$

35. $I_n=\int \frac{\mathrm{d}x}{(x^2+1)^n}$ — $I_1=\operatorname{arctg} x+C$; $I_{n+1}=\frac{2n-1}{2n}I_n+\frac{1}{2n}\frac{x}{(x^2+1)^n}+C, n\in N$

36. $\int e^{\arcsin x}\mathrm{d}x$ — $\frac{1}{2}xe^{\arcsin x}+\frac{1}{2}\sqrt{1-x^2}\arcsin x+C$

37. $\int \sinh^2 x\,\mathrm{d}x$ — $\frac{1}{2}(\sinh x\cosh x-x)+C$

38. $\int \frac{xe^x}{(1+x)^2}\mathrm{d}x$ — $\frac{e^x}{x+1}+C$

39. $\int \frac{x\arcsin x}{\sqrt{1-x^2}}\mathrm{d}x$ — $x-\sqrt{1-x^2}\arcsin x+C$

40. $\int e^{2x}\cos x\,\mathrm{d}x$ — $\frac{e^{2x}}{5}(\sin x+2\cos x)+C$

41. $\int \sin x\ln(\operatorname{tg} x)\mathrm{d}x$ — $-\cos x\ln(\operatorname{tg} x)+\frac{1}{2}\ln\left|\frac{1-\cos x}{1+\cos x}\right|+C$

42. $\int x\operatorname{tg}^2 x\,dx$ — $x\operatorname{tg} x-\frac{1}{2}x^2+\ln|\cos x|+C$

43. $\int \frac{\operatorname{arctg} e^x}{e^x}$ — $-\frac{\operatorname{arctg} x}{e^x}+\ln\left|\frac{e^{2x}}{e^{2x}+1}\right|+C$

44. $\int \ln(x+\sqrt{1+x^2})\,\mathrm{d}x$ — $x\ln(x+\sqrt{1+x^2})-\sqrt{1+x^2}+C$

45. $\int \frac{e^{\operatorname{arctg} x}}{\sqrt{(1+x^2)^3}}\mathrm{d}x$ — $\frac{1}{2}e^{\operatorname{arctg} x}\frac{x+1}{\sqrt{1+x^2}}+C$

46. $\int \arcsin\sqrt{\frac{x}{x+1}}\mathrm{d}x$ — $x\arcsin\sqrt{\frac{x}{x+1}}+\operatorname{arctg}\sqrt{x}-\sqrt{x}+C$